NGC



July 14, 1988

DIVISION OF OIL, GAS & MINING

Bureau of Land Management Vernal District 170 South 500 East Vernal, UT 84078 Division of Oil, Gas & Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

Re: NGC #24-33-B Federal SE SW Sec. 33, T8S, R16E Duchesne County, Utah

Gentlemen:

NGC Energy Company proposes to drill the subject well. Enclosed are the following documents:

1) Application for Permit to Drill

NGC

- 2) Drilling Program
- 3) Surface Use Plan
- 4) Survey Plat
- 5) Cut and Fill Diagram
- 6) Topographic Maps
- 7) Designation of Operator

Your early consideration and approval of this application would be appreciated. Please contact me in the Vernal office if you have any questions concerning this application.

Sincerely,

Mike McMican

Petroleum Engineer

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Enclosure

Form 3160-3 (November 1983) (formerly 9-331C)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

#### UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN (Other in tions on reverse side) Form approved.
Budget Bureau No. 1004-0136 Expires August 31, 1985

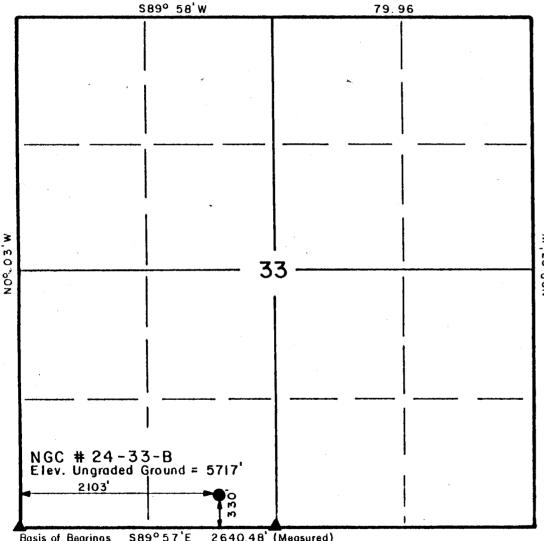
5. LEASE DESIGNATION AND SERIAL NO.

	BUREAU OF	LAND MANAGEM	IENT		U-49092	
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14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	LEST TOWN OR POST OF	FICE*		12. COUNTY OR PARISH	
	4,00				Duchesne	Utah
13. DISTANCE FROM PRO		16.	NO. OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED HIS WELL	<del></del>
LOCATION TO NEARE PROPERTY OR LEASE (Also to respect do			320	10 11	40	
18. DISTANCE FROM PRO		19.	PROPOSED DEPTH	20. ROTA	ET OR CABLE TOOLS	
OR APPLIED FOR, ON T	HIS LEASE, FT.	Gı	een River 6500'	1	Rotary	
	hether DF, RT, GR, etc.)				22. APPROX. DATE WOR	
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<u>7-7/8"</u>	5-1/2"	15.50	TD	As re	quired	
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IN ABOVE SPACE DESCRIE zone. If proposal is to preventer program, if a	drill or deepen directions	proposal is to deepen of the pertinent dat	or plug back, give data on p a on subsurface locations a:	resent produced measured	uctive sone and proposed i and true vertical depths	new productive
24.						
SIGNED MIL	e M. Micar	TITLE _	Petroleum Engine	er	DATE June	28, 1988
Michae	L M McMican  leral or State office use)			<del></del>		
· · · · · · · · · · · · · · · · · · ·	3-013-31214		APPROVAL DATE APP	ROVED	BY THE STA	TE

\*See Instructions On Reverse MELL SPACING: .

TITLE

### T8S, R16E, S.L.B.&M.



Basis of Bearings \$89°57'E 2640.48' (Measured)

▲ = SECTION CORNERS LOCATED

#### PROJECT

#### NGC ENERGY COMPANY

Well Location, NGC NO. 24-33-B. Located as Shown in the SEI/4 SWI/4, Section 33, T8S, RIGE, S.L.B.8M. Duchesne County, Utah,

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE SW CORNER OF SECTION 33. TBS, RIGE, S.L.B.8 M. TAKEN FROM THE MYTON SW, QUADRANGLE, UTAH-DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5691 FEET



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SUNVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE-TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIES.

> REGISTERED LAND SURVEYOR REGISTRATION Nº 3137. STATE OF UTAH

#### UINTAH ENGINEERING & LAND SURVEYING P 0 BOX Q - 85 SOUTH - 200 EAST VERNAL, UTAH - 84078

SCALE  " = 1000'	DATE 7 /5 /88	
PARTY	REFERENCES	
GS JS CM JAK	GLO	
WEATHER	FILE	
HAT	HOC ENEBOY CO	

85 South 200 East Vernal, Utah 84078 (801) 789-4573

July 14, 1988

State of Utah Natural Resources Oil, Gas & Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

Re: Location Exception - Federal 24-33-B 2103' FWL, 330' FSL Section 33, T8S, R16E Duchesne County, Utah JUL 18 1988

DIVISION OF OIL, GAS & MINING

#### Gentlemen:

NGC Energy Company is requesting a location exception for the Federal 24-33-B because of topographic considerations. A location within guidelines would have placed the well on a rock ledge near Wells Draw which is a fairly major drainage in the area (see attached topographic map). The most feasible alternative was to move onto a bench just to the south.

NGC Energy Company holds the lease for the north half of Section 4 (Lease U-30096). There are just two producing wells in the top half of Section 4, both of which are operated by NGC Energy Company. Our Federal 24-33-B location will be 330' from the lease line.

Sincerely,

Michael L. McMican

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Petroleum Engineer

MLM/kh

Attachment

#### DRILLING PROGRAM

Company	NGC Energy Comp	any		Well No. <u>24-33-B</u>	
Location	Section 33	T. 8S	R. 16E	Lease No. <u>U-49092</u>	
Onsite I	nspection Date _	7-7-88		-	

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

#### 1. Surface Formation and Estimated Formation Tops:

Formation	<u>Depth</u>	Datum
Uintah	Surface	+5670
Green River	1762'	+3923'
Douglas Creek Marker	4885	+ 800'
TD	6500 <b>'</b>	- 815'

## 2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

	Formation	Zone
Expected oil zones: Expected gas zones:	Green River None	4200' - 6300'
Expected water zones: Expected mineral zones:	None Oil Shale	Top @ 1762'

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 3. Pressure Control Equipment:

A 3000 WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the surface casing. The BOP system including the casing will be pressure tested to a minimum of 2500 psi for 15 minutes prior to drilling and will be mechanically checked daily during drilling operations.

BOPE and testing procedures will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.

Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

#### 4. Casing Program and Auxiliary Equipment:

Hole Size	Csg Size	Wt/Ft	<u>Grade</u>	Threads	New/Used	Depth
12-1/4"	9-5/8"	36#	K-55	STC	New	300'
7-7/8"	5-1/2"	15.5#	K-55	LTC	New	

Anticipated cement tops will be reported as to depth, not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

Auxiliary equipment will be upper kelly cock, full opening stabbing valve,  $2\frac{1}{2}$ " choke manifold, and pit level indicator.

#### 5. Mud Program and Circulating Medium:

Interval	Mud Weight lbs./gal.	Viscosity Sec./Qt.	Fluid Loss ML/30 mins.	Mud Type
0' - 300' 300' - TD	8.4	<del></del> 27	NC	Air Water

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

#### 6. Testing, Coring, Sampling and Logging:

a. Testing: As warranted.

b. Coring: None.

c. Sampling: 10' intervals 3500' to TD.

d. Logging: Type

DIL/SFL/SP/GR TD - Surface casing FDC/CNL/GR TD - Surface casing

Depth

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

#### 7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Normal pressures and temperatures are expected. No hazardous gases are expected. Expected bottom hole pressure is 2475 psig.

#### 8. Anticipated Starting Dates and Notifications of Operations:

Location construction: August, 1988

Spud Date: August, 1988

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into the reserve pit for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, gas may be vented/flared during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever comes first. An application will be filed with the District Engineer, and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

#### 9. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed".

24-33-B Drilling Program

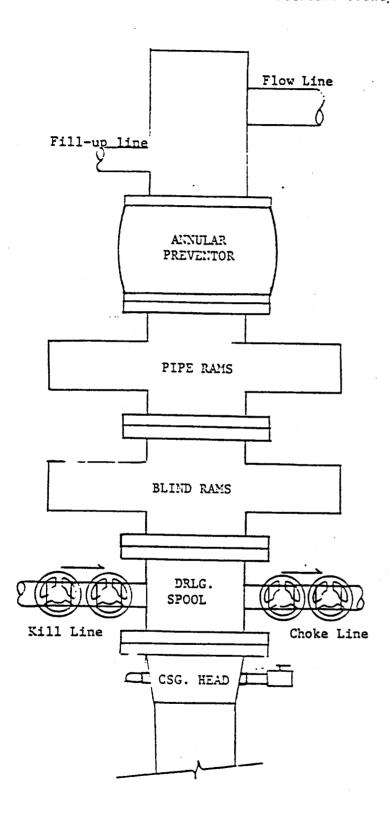
The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If operator fails to comply with this requirement in the manner and time allowed, operator shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days (Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii)).

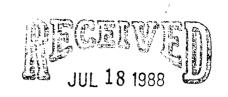
#### NGC ENERGY COMPANY

BOP and Pressure Containment Data

NGC #24-33-B Federal SE SW Sec. 33, T8S, R16E Duchesne County, Utah



- EOP equip shall consist of a double gate, hydraulically operated preventer with pipe & blind rams or two single ram type preventors, one equipped w/pipe rams, the other w/blind rams. BOP system will be consistent w/API RP 53.
- BOP's are to be well braced w/ hand controls extended clear of substructure.
- Accumulator to provide closing pressure in excess of that required w/sufficient volume to operate all components.
- 4. All BOP equipment to be tested to 2500# for 15 minutes. The BOP's will be tested at the time of installation & every 30 days thereafter. BOP's to be mechanically checked daily.
- Modification of hook-up or testin procedure must be approved in writing on tour reports by wellsi representative.



DIVISION OF CIL, GAS & MINING

Surface Use Plan

NGC Energy Company

NGC #24-33-B Federal

Sec. 33, T8S, R16E, S.L.B.& M.

Duchesne County, Utah

Onsite Date

7-7-88

#### SURFACE USE PLAN

#### 1. Existing Roads:

See attached topographic map "A".

To reach the NGC #24-33-B Federal located in Section 33, T8S, R16E, S.L.B.& M., Duchesne County, Utah:

Travel southwesterly from Myton, Utah on Highway 40 for 1.5 miles. Turn south on State Highway 53 for two miles to County Road 216. Follow County Road 216 for 4.5 miles to the BLM cattleguard. Turn right and proceed 4.6 miles to the location access road. Follow the access road north for 700' to the location.

#### 2. Planned Access Road:

See attached topographic map "B".

The proposed access road will be constructed to the following standards:

- A. Length 700'.
- B. Width 30 foot right-of-way with 18 foot running surface maximum.
- C. Maximum grades 1%.
- D. Turnouts None.
- E. Drainage design Borrow ditches.
- F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills None.
- G. Surfacing materials (source) Access road.
- H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities - None.
- Access road surface ownership BLM.
- All travel will be confined to existing access road rights-of way.

Access roads and surface disturbing activities will conform to standards outlined in the <u>USGS Publication (1978) Surface Operating Standards for Oil and Gas Development</u>.

A right-of-way application is needed for the access road. A copy of the ROW grant shall be with the dirt contractor during the construction and thereafter kept on location with the complete copy of the approved APD.

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

#### Location of Existing Wells:

See attached Map "C".

#### 4. Location of Tank Batteries and Production Facilities::

All permanent (on site for six months or longer) structures constructed or installed (including oil well pump jacks) will be painted a Desert Brown color. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown (10YR 6/3).

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery. The integrity of the dike must be maintained.

Tank batteries will be placed on the east end of the well pad between points three and four.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-leave storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500' of the wellhead. The gas flowline will be buried, or anchored down from the wellhead to the meter and 500' downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. test for meter accuracy will be conducted monthly for the first

three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and AGA standards for natural gas measurement.

#### 5. Location and Type of Water Supply:

Water to be used for drilling and production of this well will be hauled by truck from Pleasant Valley.

In the event that the above sources are not used, other arrangements will be made with the proper authorities for an alternate source.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

There will be no water wells drilled at this location site.

The operator will be responsible for acquiring the necessary permit to obtain water to be used for drilling activities.

#### 6. Source of Construction Material:

All construction materials for this location site and access road will be borrow materials, accumulated during construction of the location site. If fill materials are needed to construct roads or well sites, proper permits must be obtained from the Surface Management Agency, unless materials are obtained from a private source.

#### 7. Methods of Handling Waste Disposal:

A reserve pit will be constructed, and will be approximately 10' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, drilling fluids, and produced fluids, etc.

The reserve pit may be lined as determined by the BLM at time of construction. If the pit is lined, it shall be constructed so as not to leak, break, or allow discharge. If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling the reserve pit.

If the reserve pit is lined, the operator will provide the BLM a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements prescribed by Part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

Produced waste water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

Pits are not to be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls, unless otherwise herein provided.

Burning will not be allowed. All trash must be contained and disposed of in a trash cage and hauled to a sanitary landfill at the completion of the drilling activities.

#### 8. Ancillary Facilities:

Camp facilities or airstrips will not be required.

#### 9. Well Site Layout:

See cut and fill diagram.

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until cleanup.

The fence will be constructed as prescribed in the  $\underline{\text{USGS Publication (1978)}}$  Surface Operating Standards for Oil and Gas Development. Alternatives to the prescribed standards shall be submitted to the AO for approval.

The reserve pit will be located on the southeast side of the location. The stockpiled topsoil will be stored near point six. Access to the well pad will be between points two and three.

#### 10. Plans for Restoration of Surface:

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within 90 days from the date of well completion.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

All seeding will be done from September 15th until the ground freezes.

An appropriate seed mixture will be determined by the BLM, either as part of the Conditions of Approval of the APD or at the time restoration activities are scheduled to begin.

At such time as the well is plugged and abandoned, the operator will submit a surface reclamation plan to the Surface Management Agency for prescribed seed mixtures and reseeding requirements.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

#### 11. Surface Ownership:

The surface for all constructed roads and well location is under the jurisdiction of the BLM.

#### 12. Other Information:

The area is at the northwest end of the Uintah Basin which is formed by the Bookcliff Mountains and the Green River to the south and the Uinta Mountains to the north. The area is interlaced with numerous canyons and ridges formed in sandstone, cobblerock, conglomerate, and shale deposits.

The majority of the small drainages are of a non-perennial nature with normal flow limited to the early spring run-off and heavy thunderstorms or rain storms of high intensity that last over an extended period of time and are extremely rare in nature as the normal annual precipitation is only eight inches.

The oils of this semi-arid area are of the Uinta Formation and Duchesne River Formation, (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces) and the visible geologic structure consists of light brownish-gray clays to sandy soils with poor gravels and shales and outcrops of rock (sandstone, mudstone, conglomerate, and shale).

Due to the low precipitation, climatic conditions, and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of juniper, pinion pine, sagebrush, rabbitbrush, some grasses, and cacti, on the upper benches with cottonwoods, beach, willows, Russian olives, and grasses along the lower levels close to the wet areas and streams.

The animals of the area consist predominately of mule deer, coyotes, rabbits, varieties of small ground squirrels and other types of rodents, and various reptiles common to the area. The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing livestock.

A cultural resource clearance will be required before any construction begins on Federal and Indian lands. However, historic and cultural resource work shall be undertaken only with the written consent of a private surface owner. If the private surface owner refuses entry for that purpose, the lessee or operator shall use its best efforts to conduct its approved operations in a manner that avoids adverse effects on any properties listed, or may be eligible for listing, in the NRHP.

If, during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.

On BLM administered land, it is required that a proposed use of pesticide, herbicide or other possible hazardous chemicals shall be cleared for use prior to application.

The dirt contractor will be provided with an approved copy of the Surface Use Plan from the APD.

The operator or his contractor shall contact the BLM Offices at 801-789-1362 between 24 and 48 hours prior to construction activities. Contact Tim O'Brien.

The BLM Office will be notified upon site completion prior to moving on the drilling rig.

24-33-B Surface Use Plan

The flare pit will be located a minimum of 30' east of the reserve pit fence and 100' from the rig substructure.

## 13. <u>Lessee's or Operators Representative and Certification</u> Representative

Name:

Mike L. McMican

Address:

85 South 200 East

Vernal, UT 84078

Phone No.: 801-789-4573

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

#### Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and, that the work associated with the operations proposed here will be performed by Natural Gas Corporation of California and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7-14-88

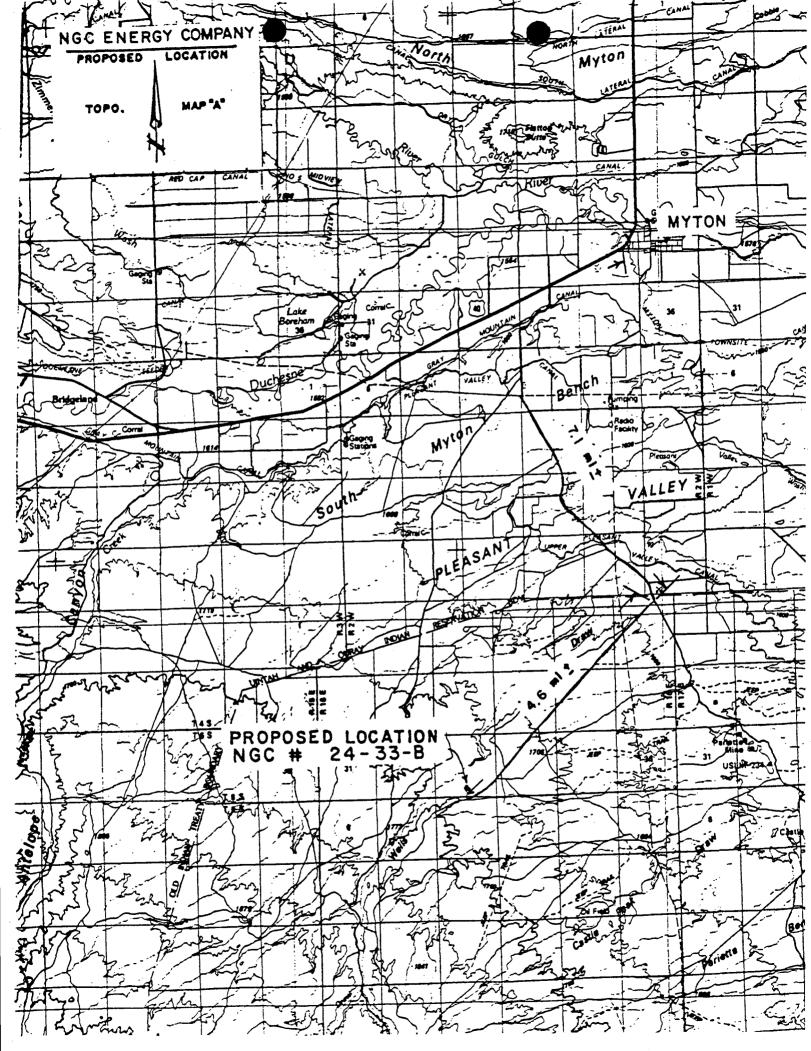
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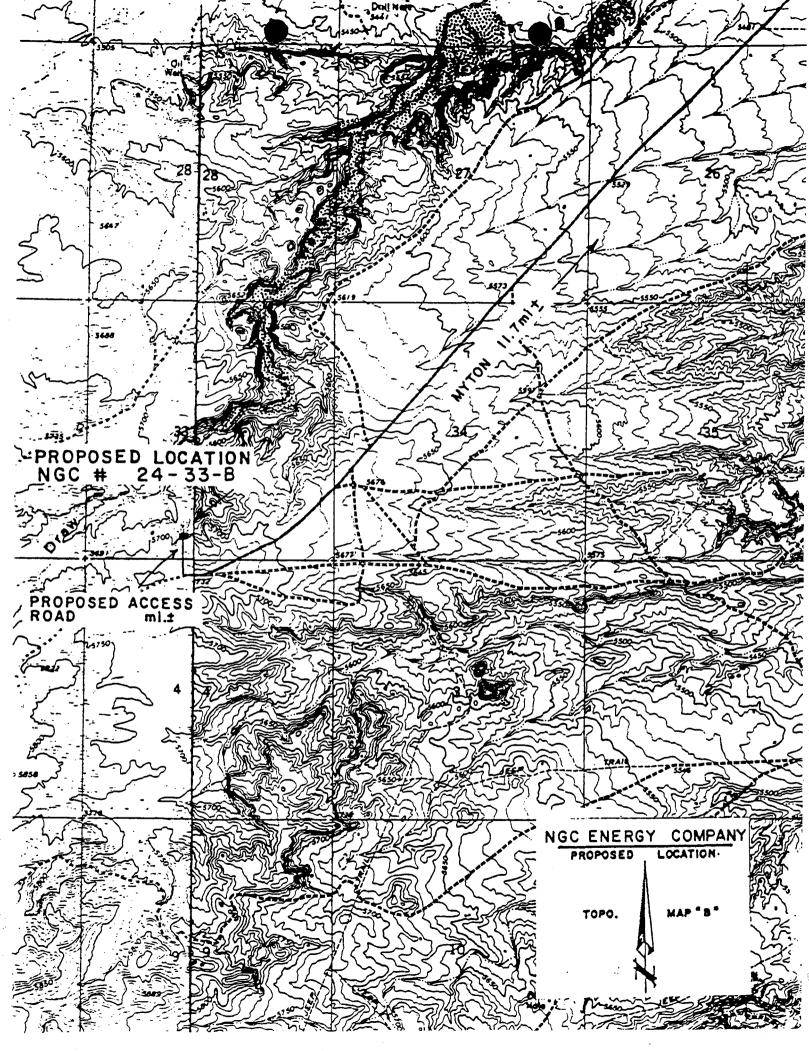
Mike L. McMican, Petroleum Engine

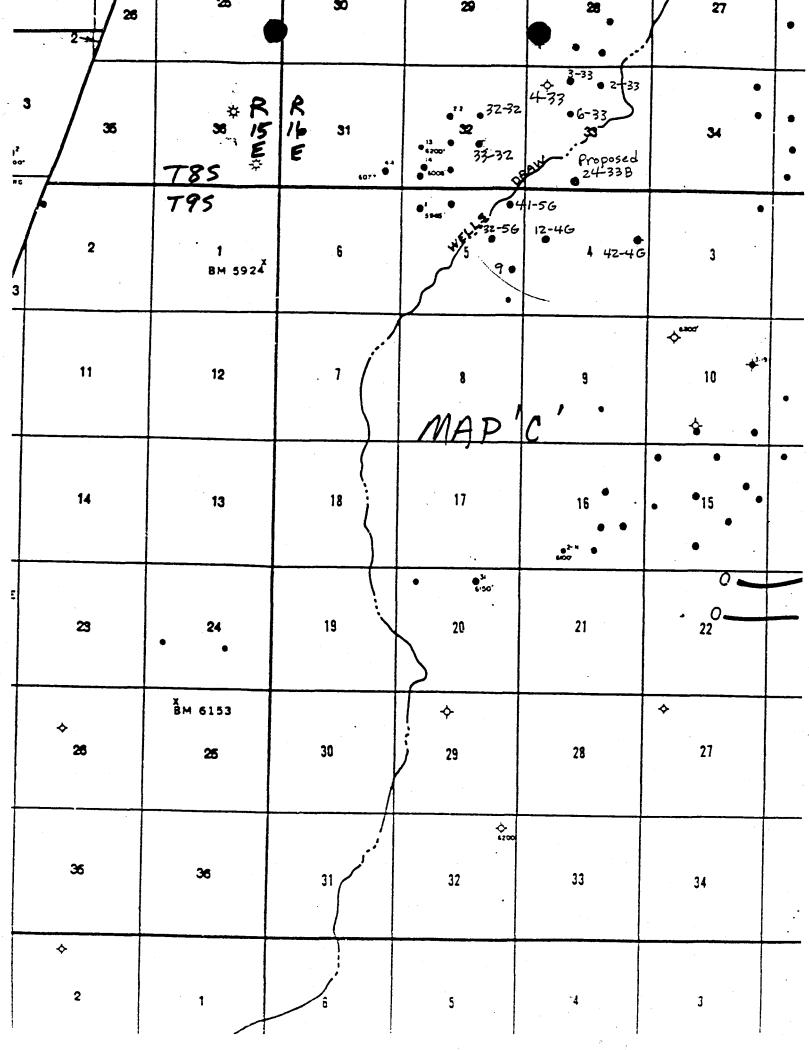
Onsite Date: 7-7-88

Participants on Joint Inspection:

Tim O'Brien - BLM Mike McMican - NGC Ralph Brown - BLM Kathy Stubbs - BLM







Form 3160-8 (November 1983) (Formerly 9-1123) (Submit in triplicate to appropriate BLM District Office)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

STATE OFFICE:

SERIAL NO .:

U-49092

and hereby designates

NAME:

NGC Energy Company

ADDRESS: Four Embarcadero Center, Suite 1400, San Francisco, California 94111

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

Township 8 South - Range 16 East Section 33: S/2 Duchesne County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the authorized officer of any change in the designated operator.

DONALD G. WOODEN

(Signature of lessee)

105 Aigh Street

St. Albans, Vermont 05478

(Address)

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and thereto does not require OMB approval.

#### NGC ENERGY COMPANY LOCATION LAYOUT FOR NGC #24-33-B SECTION 33. T8S, R16E. E1 5715.7' C-0.8' S.L.B.&M. (8) E1 5713.6' Sta. 3+00 LOGGERS 150' STATION 3+00.∞ SCALE: 1" = 50' DATE: 7/05/88 PIPE RACKS E1 5718.11 C-3.2' Ei 5717:2 C-2.3 - Sta. 1+60 --DOC HOUSE Natural Ground Location Stake E1 5712.7' F-2.2' X-Section Scale Slope Finished Grade El 5714.9 11/2:1 Typ. 1" = 50' MUD PUMP EI 5706.9' STATION MUD SHED 1 + 50.00TOILET -HOPPER FUEL LIGHT PLANT TOOLS 50 STORAGE TANK E1 5711.1' E: 5716.8' C-9.9' E1 5714.8' EI 5716.3' C-1.4 APPROXIMATE YARDAGES EXCESS MATERIAL AFTER STATION 20% COMPACTION (6") Topsail Stripping = 843 Cu. Yds. = 1.691 Cu. Yds. 0+00.00 Pit Volume (Below Grade) = 1.329 Cu. Yds. Topsoil & Pit Beckfill = 1.508 Cu. Yds. = 1.291 Cu. Yds. (1/2 Pit Vol.) = 3.463 CU. YDS EXCESS UNBALANCE = 183 Cu. Yds. (After Rehabilitation) UINTAH ENGINEERING & LAND SURVEYING = 1.418 CU. YDS P.O. Bex 1758 Vernel. Utah

E! 5717.1' C-2.2'

Reserve Pit Bockfill & Spoils

RESERVE PIIS (8 DEEP)

(8to Prt)

Stockpile

FLARE

E1 5718-8'; C-11.9' (Bto Pit)

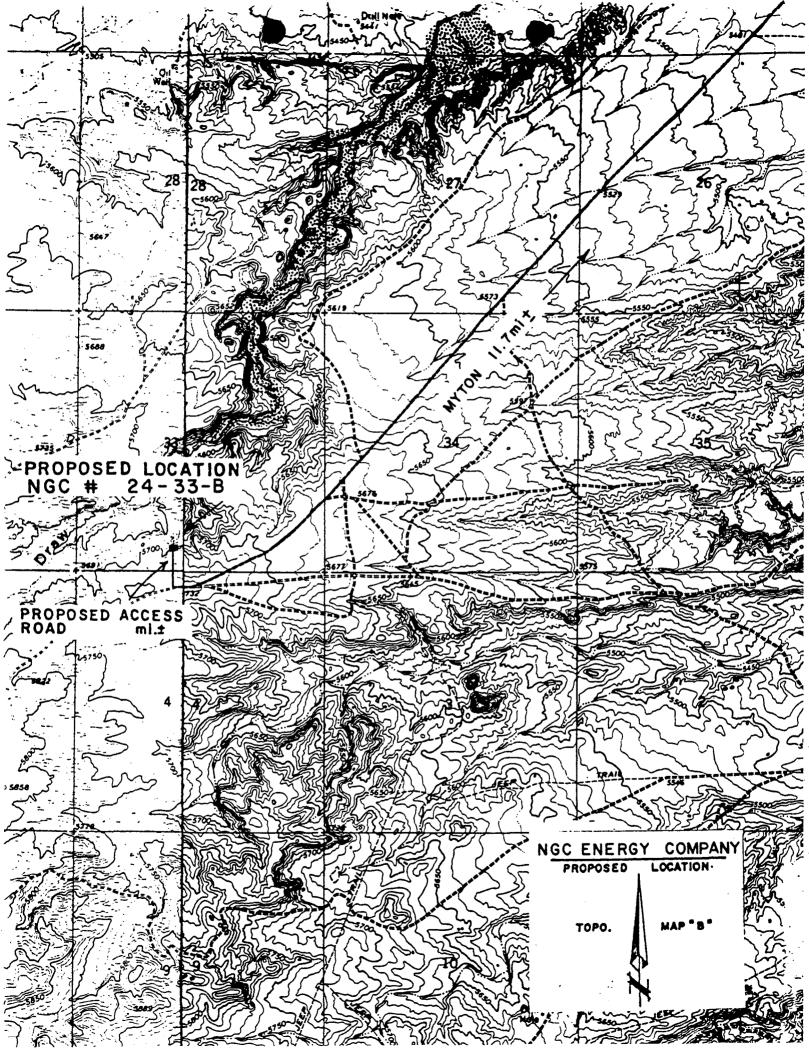
E1 5717.5'

Remaining Location

FILL

TOTAL CUT

CUT



# CONFIDENTIAL COS OF 5:15-88

OPERATOR NGC Energy Company (No	00/ DATE /-18-88
WELL NAME Federal 24-33-B	
SEC <u>SESW 33</u> T 85 R 16E C	OUNTY Duchesne
43-013-31214 API NUMBER	Fed. TYPE OF LEASE
CHECK OFF:	THE OF LEASE
	ALL ADECT
PLAT	NEAREST WELL
LEASE FIELD	POTASH OR
LEASE	OIL SHALE
PROCESSING COMMENTS: No other well within 920'	
Need water purmit	CONFIDENTIAL
Exception location requested on APD.	PERIOD
	EXPIRED - N_ 1-1-90
APPROVAL LETTER:	
SPACING: R615-2-3	R615-3-2
UNIT	
	R615-3-3
CAUSE NO. & DATE	
STIPULATIONS:	
1-Water Permit	



# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

July 22, 1988

Natural Gas Corporation of California 85 South 200 East Vernal, Utah 84078

Gentlemen:

Re: Federal 24-33-B - SE SW Sec. 33, T. 8S, R. 16E - Duchesne County, Utah 330' FSL, 2103' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R6I5-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification within 24 hours after drilling operations commence.
- Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
- 3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
- 4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (80I) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
- 5. Compliance with the requirements of Rule R6I5-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
- 6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (80I) 538-6121.

Page 2 Natural Gas Corporation of California Federal 24-33-B July 22, 1988

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31214.

Sincerely,

Associate Director, Oil & Gas

Ir Enclosures

cc: Branch of Fluid Minerals

D. R. Nielson

8159T

Form approved. Budget Bureau No. 1004-0135 Form 3160-5 (November 1983) DEPARTMENT OF THE INTERIOR (Other Instruction verse aide) Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. (Formerly 9-331) BUREAU OF LAND MANAGEMENT U-49092 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGREEMENT NAME OIL X GAS WELL STREE NAME OF OPERATOR S. PARM OR LEASE NAME NGC ENERGY COMPANY Federal 3. ADDRESS OF OPERATOR 9. WELL NO. 85 South 200 East, Vernal, UT 84078 24-33-B LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT AUG 12 1988 Monument Butte 11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA 2103' FWL, 330' FSL, SE/SW PIVISION OF Sec. 33, T8S, R16E
12. COUNTY OR PARISH | 13. STATE 15. SLEVATIONS (Show whether by RT. CAS & MINING 5670' GR 43-013-31214 Utah Duchesne 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: REPAIRING WELL TEST WATER SHUT-OFF PCLL OR ALTER CASING WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT ALTERING CABING SHOOTING OR ACIDIZING ABANDON MENT® SHOOT OF ACIDIZE ARANDON\* REPAIR WELL (Nors: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) Request Confidential Status 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

NGC Energy Company requests that all information concerning this well be placed in a confidential status.

CONFIDENTIAL

	4					Davis;	WGPaulsell;	BHill;				
18.	I hereby certify	that the fores	roing is tru	ie and correc	t						ncu	<u> 15</u>
	SIGNEDMI	MF071 chael L.	MCMica	Van	TITLE _	Petrol	eum Engineer		DATE_	Aug.	10,	1988
	(This space for											
	APPROVED BY CONDITIONS O				TITLE _			<del></del> .	DATE	· · · · · · · · · · · · · · · · · · ·		

Form 3160-(November 1983) (formerly 9-331C)

### UNITED STATES

SUBMIT IN LICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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Attachments: Drilling Program Surface Use Plan Survey Plat Cut and Fill Diagram Topographic Maps Well Location Map Designation of Operator  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some and proposed rome. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths.		rface	00' To s	3	36	/8''	9-5/		12-1/4"
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one. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths.	1. 12 24 25 26 27 20 2	JUL 1988 FEED WAR HARD AND AND AND AND AND AND AND AND AND AN	011000	an Lagram Os Gap	rface Use P rvey Plat it and Fill ppographic M ell Location	S S C T W	tachme	Att	
SIGNED Michael M. McMican (This space for Federal or State office use)  PERNIT NO. 43-0/3-3/2/4  APPROVAL DATE	. Give blowou	netive sone and proposed new i and true vertical depths. Gi	locations and measu	a on subsurface	y, give pertinent o	Mcan ican office use)	McMi	s to drill if any.	eventer program.
4 *************************************		/ .	FE	APPROVAL DA	-14	13-0/	2 - U!	43	PERMIT NO.
APPROVED BY Level E. Jeney Title MANAGER MINERALS DATE 8/9/8 CONDITIONS OF APPROVAL, IF ANY;	88	DATE 8/9/88	NI DISTRICT R MINERALS	MANAG	TITLI	Keneyba	F ANY ;	PROVAL, II	APPROVED BY CONDITIONS OF AP

NOTICE OF APPROVAL

TO OPERATOR'S COPY

\*See Instructions On Reverse Side

#### CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company	NGC ENERG	Y COMPANY		Well No.	24-33-В	_
Location _	Sec. 33	T. 8 S	R. 16 E	Lease No.	U-4909 Z	
Onsite Ins	pection Date	7-7-88	·			
	<i>5</i>					

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

#### A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Wayne Svejnoha of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

The Mahogany oil shale has been identified from  $\pm$  3035-3165 ft. and fresh water may be encountered from  $\pm$  300-600 ft., 1790-2050 ft, 3540-3810 ft., and 3940-4190 ft. To adequately protect and/or isolate the identified natural resources, the cement top for the production string will be at least 200 ft. above the top of the Mahogany oil shale zone as identified from the open hole logs.

#### 2. Pressure Control Equipment

The minimum pressure testing requirements for the annular-type preventer is 1500 psi for at least 10 minutes. Should NGC Energy wish to test beyond the BLM's minimum requirements, that is NGC's prerogative.

#### 3. Mud Program and Circulating Medium

No chromate additives will be used in the drilling fluid without prior approval from this office.

#### 4. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

To verify the cement top, a cement bond log (CBL) will be run or verification will be done by some other method acceptable to the authorized officer.

#### 5. Notifications of Operations

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the authorized officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut—in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted if requested prior to the expiration of the original approval period.

Craig M. Hansen (801) 247-2318 Assistant District Manager

for Minerals

Gerald E. Kenczka (801) 781-1190 Petroleum Engineer

Ed Forsman (801) 789-7077

Petroleum Engineer

# CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION API NO. 43-013-31214

NAME OF COMPA	ANY: NATURAL GA	AS CORP OF CA	LIF.		
WELL NAME:	FEDERAL 24	1-33-B			
SECTION SESW	33 TOWNSHIP 85	RANGE_	16E C	OUNTY DUCHESN	Е
DRILLING CON	TRACTORLEC	ON ROSS			
RIG #					
SPUDDED: D	ATE 8/15/88				
T	IME_4:00 p.m.				
Н	OW_ DRY HOLE				•
DRILLING WILL	L COMMENCE 8/18/8	88 (OLSEN #5)	<u>)</u>		
REPORTED BY_	MTVE				
	1-789-4573		<del>-</del>	•	
		·	·•		
•					
DATE	8/16/88		SIGNED	TAS	

NGC Energy Company N0700 OPERATOR CODE 85 South 200 East ENFIDENTIAL DORESS PHONE NO. 801 3789-4573 Vernal, UT 84078 OIDINASSON GRAING OIL GAS & MINING TORS MAY BE TO THE PORT OF THE PORT O ACTION CURRENT API NUMBER WELL NAME WELL LOCATION EFFECTIVE CODE ENTITY NO. ENTITY NO. DATE DATE SC COUNTY 43-013-31214 Federal #24-33-B SE/SW 33 T8S R16E Duchesne Α 3-15-88 Federal-lease Proposed Zone-Green River Notin a Unit Conly well in Sec. 33 operated by NGC, assign new entity 10913 on 8-18-88 LCR) COMMENTS: Field-monument Butte COMMENTS:

	COMMENTS			
	A SIMENIS	:		
-				
- 4				

COMMENTS:

COMMENTS:

ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)

B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)

C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY

D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY

E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

Connie Wales

SIGNATURE A

8/16/88

TITLE

DΑÝΕ

Form 3160-5		HAUTED CTATEC	AVIDAGE IN EDITION		Bureau No. 1004-0135
(November 19 (Formerly 9-	83) 331) DEPARTA	TED STATES T OF THE INT	ERIOR LA SUBMIT IN TRUE	CXDITES	August 31, 1985
(1 01		U OF LAND MANAGE		4909	2
	SUNDRY NOT	ICES AND REPOR	TS ON WELLS 22 100	INDIAN.	LLOTTEE OR TRIBE NAME
(Do no	t use this form for propos Use "APPLICA	als to drill or to deepen or TION FOR PERMIT—" for	plug back to a different reservoir.	00	
ī.			DIVISION OF	7. UNIT AGREE	CENT HAME
WELL X	WELL OTHER	PANT	GAS & MINI	NG 8. FARM OR LE	ASS NAME
2. NAME OF O	ERGY COMPANY	LUNT	IUENIAL	Federa	
3. ADDRESS OF		<u> </u>		9. WELL NO.	•
85 Sou	th 200 East, Ver	mal, UT 84078		24-33-1	
See also spi	r WELL (Report location ci ace 17 below.)	early and in accordance with	any State requirements.*	}	POOL, OR WILDCAT
At surface				11. SEC., T., B.,	nt Butte
2103'	FWL, 330' FSL, S	E/SW	. •	SULVET	R ARMA
				Sec. 3	PARISH 13. STATE
14. PERMIT NO.		15. BLEVATIONS (Show wheth	her DF, RT, GR, etc.)		1
43-013		5670' GR		Duchesi	ie   Utah
16.	Check Ap	propriate Box To Indica	te Nature of Notice, Report,	or Other Data	
	NOTICE OF INTENT	rion to:	80	BERQUENT REPORT OF:	
TEST WATE	E SHUT-OFF P	CLL OR ALTER CASING	WATER SHUT-OFF	BEP	IRING WELL
FRACTUBE		ULTIPLE COMPLETE	PRACTURE TREATMENT		DONMENT
SHOOT OR . REPAIR WE		BANDON*	SHOOTING OR ACIDIZING		DONALNI
(Other)	Spud Date	x	(Note: Report re	esults of multiple com- completion Report and	letion on Weil
proposed nent to th	Operator repo at 4 p.m. 8/1 was set @ 310	rts 12½" surface 5/88. On 8/17/88	hole was spudded with 47#/53.5#, I cemented to surface	h a dryhole d: L80/New, LTC o	igger casing
		The second secon			
	i in the second		·		
	A CONTRACTOR OF THE PARTY OF TH	and the second s		14.	
			CONFIDE	MIAL	
Copies:	Div. OG&M Ralp HCulp	h E. Davis; DGWoo	den; WGPaulsell; SFu	rtado; BHill;	LJorgensen;
18. I hereby cer	tify that the foregoing is	true and correct			10 100
SIGNED	Mike Mc Mu	can title	Petroleum Engineer	DATE _	ugust 18, 1988
(This space	for Federal or State office	use)		·	
<b>₹ ₽₽₽</b> ∩₩₩ <b>?</b>	R♥	TITLE	·	DATE	
APPROVED	S OF APPROVAL IF AN				

(Formerly 9–331) DEPARTN	UNITED STATES  OF THE INTE  U OF LAND MANAGEME	- de la	Budget Bureau No. 1004-0135 Expires August 31, 1985  15 HARE DESIGNATION AND SERIAL NO.  49092		
SUNDRY NOTI	ICES AND REPORTS als to drill or to deepen or plu TION FOR PERMIT—" for suc	ig back to a different reservoir. h proposals.)			
OIL GAS OTHER		DIVISION OF DIL, GAS & MIN			
2. NAME OF OPERATOR	CONF	DENTIAL	S. FARM OR LEASE NAME		
NGC ENERGY COMPANY	UUIII	DEMILL	Federal		
3. ADDRESS OF OPERATOR 85 South 200 East, Ver			9. WELL HO.		
4. LOCATION OF WELL (Report location cl	early and in accordance with a	ny State requirements.*	24-33-B 10. FIELD AND POOL, OR WILDCAT		
See also space 17 below.) At surface			Monument Butte		
2103' FWL, 330' FSL, S	E/SW		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA		
			Sec. 33, T8S, R16E		
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE		
43-013-31214	5670' GR		Duchesne   Utah		
16. Check App	propriate Box To Indicate	Nature of Notice, Report, of	r Other Data		
NOTICE OF INTENT	TION TO:	8038	SEQUENT REPORT OF:		
TEST WATER SEUT-OFF	CLL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL		
	ULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING		
<del></del>	BANDON*	SHOOTING OR ACIDIZING (Other)	ABANDONMENT*		
(Other) Weekly Status R			nits of multiple completion on Well impletion Report and Log form.)		
proposed work. If well is direction nent to this work.)	nally drilled, give aubsurface k	eations and measured and true ver	tes, including estimated date of starting any tical depths for all markers and sones perti-		
thru August 19,		J	<u>-</u>		
tilla August 19,	MA				
Last Science	The second secon				
	CONFIDE	INTIAL			
Copies: Div. OG&M Wood	en; Paulsell; Furt	ado; Hill; Jorgensen;	; Culp		
18. I hereby certify that the foregoing is	-				
SIGNED Surla Han	<i>(i</i>	Office Cupervisor	10 1000		
	Oly TITLE_	Office Supervisor	Aug. 19, 1988		
Karla Hanberg (This space for Federal or State office	THE _	Office Supervisor	Aug. 19, 1988		

#### NGC ENERGY COMPANY

#### NGC OPERATED - DRILLING

NGC Energy Company Pleasant Valley Federal #24-33-B

#### TIGHT HOLE

1980' FWL 660' FSL, SE/SW Sec 33-T8S-R16E, Duchesne Co., UT. PTD 6500'. Objective: Green River. Elevations: 5670'GR. BPO NGCE has 100% WI; 81.25% NRI. APO NGCE has 75% WI; 65.625% NRI. (87.5% NRI Lease). Contractor: Leon Ross. Spud: 8/15/88 AFE #8908. TOTAL AFE AMT \$429,145. DRLG AFE AMT \$118,870. COMP AFE AMT \$310,275.

8-15-88	Tricon Kent moved in on 8-13-88 and started
	location. Finished building location yesterday.
	Daily cost \$3,180; CDC \$3,180
8-16-88	TD 75'. Leon Ross spudded 12-1/4" surface hole @
	4:00 PM, 8-15-88. Drilled to 75' and SDFN. Daily
•	cost \$0; CDC \$3,180
8-17-88	TD 300'. Leon Ross finished drilling 12-1/4"
	surface hole to 300' & SDFN. Daily cost \$0; CDC
	\$3,180
8-18-88	TD 315'KB. Ran 9-5/8" 7 jts of 47#/53.5#, L80/N80,
•	(295.83') casing set @ 310'KB. Cemented w/165 sx
	class "G" + 2% CaCl2 + 1/4#/sk flocele. Good
	returns to surface. Present Operation: Build
	cellar and line reserve pit. Daily cost \$13,205;
	CDC \$16,385
8-19-88	Built cellar, lined & fenced reserve pit. Started
	filling pit. Installed and tested casinghead.
	Daily cost \$3,000; CDC \$19,385

Form 3160-5 (November 1983) (Formerly 9-331)	DEPART	JNITED STA	E INTER	SUBMIT IN THE	00 20	Expires Augus LEASE DESIGNATION U-49092	
SUND	RY NOTI	CES AND RI	EPORTS	DN WELLS	88.	. IF INDIAN, ALLOTTI	
1.				DIVISION OF	: 7	. UNIT AGREEMENT N	AME
WELL WELL	OTHER		MILL		<del>MG -</del>	. FARM OR LEASE NA	
2. NAME OF OPERATOR	CD 4.3777	Li	JIVE	ULNIAL			
NGC ENERGY COI	1PANY				9	Federal	
85 South 200	Fact Ver	nal IIT 840	078			24-33-B	
4. LOCATION OF WELL (Rep	ort location cl	early and in accord	ance with any	State requirements.	10	). FIELD AND POOL,	OR WILDCAT
See also space 17 below At surface	.)					Monument Bu	utte
					1	I. SEC., T., B., M., OR SURVEY OR ARE	BLK. AND
2103' FWL, 330	o' FSL, S	E/SW				_	
						Sec. 33, T	3S, R16E
14. PERMIT NO.		15. ELEVATIONS (S		RT, GR. etc.)	1	2. COUNTY OR PARIS	1
43-013-31214		5670' GI	R ·	and the state of t		Duchesne	Utah
16.	Check Ap	propriate Box To	Indicate N	lature of Notice, Re	port, or Othe	er Data	
No	CICE OF INTENT	-				REPORT OF:	
			[			REPAIRING	<b>***</b>
TEST WATER SHUT-OFF	<del></del>	CLL OR ALTER CASIN	46	WATER SHUT-OFF FRACTURE TREAT	MENT -	ALTERING (	
FRACTURE TREAT SHOOT OR ACIDIZE	<del></del>	ULTIPLE COMPLETE		SHOOTING OR ACI	<del></del>	ABANDONME	<u> </u>
REPAIR WELL		HANGE PLANS		(Other)			
	y Status		X	(Norz: Rep	ort results of or Recompletio	multiple completion n Report and Log fo	on Well orm.)
17. DESCRIBE PROPOSED OR C proposed work. If we nent to this work.)*  Attached is August 26,	the week		-	r the subject w			
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•			ı; rurta	lo; Hill; Jorge	msen; cu.	- <del>L</del>	
SIGNED Karlo	Hand	ery	TITLE Of	fice Supervisor		DATE Aug.	26, 1988
(This space for Federal	or State offic	: use)					
•			መነጥ፣ ም			DATE	
CONDITIONS OF APP	ROVAL IF A	rr:	TITLE	·		~~~	

#### NGC ENERGY COMPANY

#### NGC OPERATED - DRILLING

NGC Energy Company Pleasant Valley Federal #24-33-B

#### TIGHT HOLE

1980' FWL 660' FSL, SE/SW Sec 33-T8S-R16E, Duchesne Co., UT. PTD 6500'. Objective: Green River. Elevations: 5715'GR, 5730'KB. BPO NGCE has 100% WI; 81.25% NRI. APO NGCE has 75% WI; 65.625% NRI. (87.5% NRI Lease). Contractor: Olsen Rig #5. Spud: 8/15/88 (DHD); 8/20/88 (CORO). AFE #8908. TOTAL AFE AMT \$429,145. DRLG AFE AMT \$118,870. COMP AFE AMT \$310,275.

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8-19-88	Built cellar, lined & fenced reserve pit. Started filling pit. Installed and tested casinghead. Daily cost \$3,000; CDC \$19,385
8-20-88	TD 375'. Day 1. Drilling. MIRU Olsen Rig #5. Tested BOP's. Drilled out cement & shoe, Drilled to 375'. Survey: 1/4 DEG @ 331'. ME 8.3, VIS 27, PH 8.5. Daily cost \$4,195; CDC \$23,580
8-21-88	TD 1460'. Day 2. Drilling. Made 1085' in 25-1/2 hrs. Drilling at a rate of 42.5 FPH. Survey: 1/2 DEG @ 1283'. MW 8.3, VIS 27, PH 10.5. Daily cost \$10,745; CDC \$34,325
8-22-88	TD 2622'. Day 3. Drilling. Made 1162' in 23-1/2 hrs. Drilling at a rate of 49.4 FPH. Survey: 3/4 DEG @ 2273'. MW 8.3, VIS 27, PH 11. Daily cost \$10,560; CDC \$44,885
8-23-88	TD 3455'. Day 4. Drilling. Made 833' in 23-1/2 hrs. Drilling at a rate of 35.4 FPH. Survey: 1 DEG @ 3290'. Mud logger on @ 3500'. MW 8.3, VIS 27, PH 11.5. Daily cost \$8,110; CDC \$52,995

8-24-88	TD 4175'. Day 5. Drilling. Made 720' in 23-3/4 hrs. Drilling at a rate of 30.3 FPH. No shows. BGG 10-30 units. Estimate top of "A" Sand to come in @ 4283'. MW 8.4, VIS 27, PH 12. Daily cost \$9,010; CDC \$62,005
8-25-88	TD 4560'. Day 6. Drilling. Made 167' in 6-1/2 hrs. Drilling at a rate of 25.7 FPH. Survey: 1-1/2 DEG @ 4296'. Trip for new bit. Drilled to 4560, made 218' in 9-1/2 hrs; drilling 22.9 FPH. Mud log report: BGG 5-10 units. Drill breaks - minor sand shows:  4252'-58' 40-245-30 4278'-82' 80-240-30 4477'-80' 6-88-8 4488'-92' 10-120-50 4494'-98' 50-170-10  "A" top @ 4278', estimated DC2 top to be 4950'. MW
	8.4+, VIS 27, PH 12. Daily cost \$6,135; CDC \$68,140
8-26-88	TD 5048'. Day 7. Made 488' in 20-1/2 hrs. Drilling at a rate of 23.8 FPH. TIH for hole in drill string; found, washed out DP & TIH. Mud log report:  "B" top @ 4508'  DC Marker @ 4922' shows:
	B Sands 4848'-56' 15-240-20 1-1/2 MPF
	B Sands 4676'-86' 6-290-10 1-1/2 to 2 MPF B Sands 4916'-22' 10-110-10 2 MPF
	DC2 4940'-66' 4-350-18 1 MPF
	DC4 4996'-5005' 8-300-15 1 MPF
	MW 8.4+, VIS 27, PH 12. Daily cost \$6,205; CDC \$74,345

		•	-			Form	approved.	
Form 3160-5		UNITED STA	TEC	SIIRWIT	IN TRIPLICATE	Budge	et Bureau No. 1	
(November 1983)	555453	OB ED SIA	LICO E INTE	RIOR (Other verse sid	nstruction n r	EXPII	es August 31.	
(Formerly 9-331)	DEPART				•/	J. LEASE D	ESIGNATION AND I	BELLE NO.
	BURE	AU OF LAND MA	NAGEME	NT		U-490		
	UD 01/ N/O	TICEC AND D	EDODIC	ON WELL	c	6. IF INDIA	N, ALLOTTEE OR 1	BIBE NAME
SUI	NUKY NO	TICES AND R	EPORIS	ON WELL	J			
(Do not use thi	is form for prop Use "APPLI	cation for permit	repen or pro I—" for suc	h proposais.)	at reservoir.			
ī						7. UNIT AGE	SKAN THEMSE	
OIL GAS					_			
WELL WELL	OTHER			PAGE 15 11 11 11 11 11 11 11 11 11 11 11 11			LEASE NAME	<del></del>
2. NAME OF OPERATOR		17117			1 8	1		
NGC ENERGY	COMPANY	UUI	AI IF	1 1 1 1 1 1 1 1	l la	Feder		
3. ADDRESS OF OPERAT	OR		( B	TEN EN	2000	9. WELL NO	).	
85 South 20	O East. Ve	ernal, UT 84	078 億		(W BIN	24-33	3-B	
4. LOCATION OF WELL	Report location	clearly and in accord	ance with	ny State requirem	nu.		ND POOL, OR WIL	DCAT
See also space 17 be At surface	elow.)					Monin	ment Butte	
At surface		•		SEP 6	1988		2., M., OR BLK. A	NTD
_				· · ·		SURV	BY OR AREA	
2103' FWL,	330' FSL,	SE/SW		DIVISIO	al or	1		
				** **		Sec.	33, T8S, 1	R16E
14. PERMIT NO.		15. ELEVATIONS (S	how whether	or, Wiles, GAS &	MINING	12. COUNTY	OR PARISH 13.	STATE
43-013-3121	4	5670' G	R			Duche	esne l	Utah
43-013-3121							,	
16.	Check A	Appropriate Box To	o Indicate	· Nature of Not	ice, Report, or	Other Data		
	•	• • •		ı		QUENT REPORT	OF:	
	NOTICE OF INTE	INTION TO:				<del></del>		
TEST WATER SHUT-	OFF	PCLL OR ALTER CASI	NG	WATER	BEUT-OFF	1	REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		PRACTUI	E TREATMENT	4	LIBRING CASING	
SHOOT OR ACIDIZE	<u> </u>	ABANDON*		SHOOTI	G OR ACIDIZING		BANDONMENT*	
				(Other)		<del></del>		
REPAIR WELL		CHANGE PLANS		(N	orm: Report result	ts of multiple of	ompletion on We	ii 
(Other) Weekl 17. DESCRIBE PROPOSED OF Proposed work.	y Status 1	Report		) Co	mpletion or Recom	pietion Report	and Log form.)	
		ekly status r Current statu				rom Augus	t 27 throu	gh
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Copies:	Div. OG&M	; Wooden; Pau	lsell;	Furtado; H	ill; Jorgen	sen; Culp		
<u>-</u>			lsell;	Furtado; H	ill; Jorgen	sen; Culp	·····	
-							Sont 1	1988
18. I hereby certify tha	t the foregoing		lsell;	Furtado; H		sen; Culp	Sont 1	1988
18. I hereby certify tha	t the foregoing	is true and correct					Sont 1	1988
18. I hereby certify tha	t the foregoing	is true and correct					Sont 1	1988
SIGNED	t the foregoing Hanberg leral or State of	is true and correct					Sept. 1,	1988
signedKarla	t the foregoing Hanberg leral or State of	is true and correct	TITLE			DATE	Sept. 1,	1988

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TD 6026'. Day 9. Made 514' in 23-3/4 hrs.
8-28-88
              Drilling at a rate of 21.6 FPH. Mud Log Report:
                           @ 5460'
                   "F"
                           @ 5826'
              Shows:
                                       10-40-10
                                                   2 MPF
                Ee
                        5430'-42'
                E2
                        5540'-49'
                                       6-60-10
                                                   2 MPF
                                       10-280-20
                                                   2 MPF
                F1
                        5829'-30'
                F1
                        5830'-36'
                                       16-360-12
                                                   1 MPF
                        5861'-63'
                                       10-128-14
                                                   1 to 1-1/2
                Fl
                        5875'-82'
                                       10-96-10
                                                   2 MPF
                F2
                        5905'-17'
                                       20-220-10
                                                   1 to 1-1/2
                F3
                        6004'-09'
                                       20-134-10
                                                   1-1/2 MPF
                F3
                        6011'-13'
                                       54-126-30
                                                   1-1/2 MPF
                F3
              Estimate basal lime top to be at 6325'. MW 8.4+,
              VIS 27, PH 11. Daily cost $5,980; CDC $85,740
              TD 6411'. Day 10. Made 385' in 17-3/4 hrs.
8-29-88
              Drilling at a rate of 21.7 FPH. Pump hole sweep &
              POOH for logs. Mud log report:
                Basil Lime @ 6239'.
              Mud Gas:
                F Sand
                        6148'-58'
                                       10-230-20
                F Sand
                        6194'-6205'
                                       20-110-10
                        6310'-24'
                                       75-100-200-540
                Lime
                Lime
                        6342'-47'
                                       100-250-75
                        6357'-58'
                                       60-150-60
                Lime
              High background gas & free oil thoughout the
              Limestone - probably fractured. MW 8.4, VIS 27, PH
                     Daily cost $6,670; CDC $92,410
              TD 6411'. Day 11. Made 0. MW 8.4, VIS 27, PH
8-30-88
                     POOH for logs. Log w/Welex. TIH. Circ &
              10.5.
                     LD drill pipe & drill collars. Repair rig
              (brakes). RU & run 5-1/2" casing. Present
              Operation: Run casing. Daily cost $4,345; CDC
              $96,755
              TD 6411'. Day 12. MW 8.4, VIS 27, PH
8-31-88
              10.5. Finish running 5-1/2" 17# K-55/N-80 casing
              to 6410'. RU Halliburton & cemented w/125 sx
              silica lite cement followed by 500 sx of class "G"
              + 10% Calseal. ND BOP's. Set slips & cutoff.
              Released @ 4:00 P.M. 8-30-88. Final Report.
              Waiting on completion. Daily cost $9,560; CDC
              $106,315
```

```
8-24-88
              TD 4175'. Day 5. Drilling. Made 720' in 23-3/4
              hrs. Drilling at a rate of 30.3 FPH. No shows.
              BGG 10-30 units. Estimate top of "A" Sand to come
              in @ 4283'. MW 8.4, VIS 27, PH 12. Daily cost
              $9,010; CDC $62,005
TD 4560'. Day 6. Drilling. Made 167' in 6-1/2
8-25-88
              hrs. Drilling at a rate of 25.7 FPH. Survey:
              1-1/2 DEG @ 4296'. Trip for new bit. Drilled to
              4560, made 218' in 9-1/2 hrs; drilling 22.9 FPH.
              Mud log report: BGG 5-10 units. Drill breaks -
              minor sand shows:
                        4252'-58'
                                       40-245-30
                        4278'-82'
                                       80-240-30
                        4477'-80'
                                       6-88-8
                        4488'-92'
                                       10-120-50
                        4494'-98'
                                       50-170-10
              "A" top @ 4278', estimated DC2 top to be 4950'. MW
              8.4+, VIS 27, PH 12. Daily cost $6,135; CDC
              $68,140
              TD 5048'. Day 7. Made 488' in 20-1/2
8-26-88
              hrs. Drilling at a rate of 23.8 FPH. TIH
              for hole in drill string; found, washed out DP &
              TIH.
                    Mud log report:
                        "B" top @ 4508'
                         DC Marker @ 4922'
              shows:
                B Sands
                         4848'-56'
                                       15-240-20
                                                   1-1/2 MPF
                                       6-290-10
                                                   1-1/2 to 2 MPF
                B Sands
                          4676'-86'
                          4916'-22'
                                       10-110-10
                                                   2 MPF
                B Sands
                DC2
                          4940'-66'
                                       4-350-18
                                                   1 MPF
                DC4
                          4996'-5005' 8-300-15
                                                   1 MPF
               MW 8.4+, VIS 27, PH 12. Daily cost $6,205; CDC
              $74,345
              TD 5512'. Day 8. Made 464' in 21
8-27-88
              hrs. Drilling at a rate of 22.1 FPH.
              Survey: 1-1/2 DEG @ 5271'.
              Mud log report:
                        "D" top @ 5160'
                        "E" top @ 5272'
              Shows:
                                       10-310-50
                                                   2 MPF
                          5120'-27'
                DC5
                                                   2-1/2 MPF
                DC6
                          5133'-38'
                                       40-110-20
                          5157'-60'
                                       50-240-50
                                                   1-1/2 MPF
                DC6
                                                   3 MPF
                Upper D
                          5164'-74'
                                       50-200-50
                                       50-180-40
                                                   2-1/2 to 3 MPF
                Upper D
                          5180'-90'
                                     20-350-25
                          5390'-98'
                                                   1 to 2 MPF
                Ed
              MW 8.4+, VIS 27, PH 11.5 Daily cost $5,415; CDC
              $79,760
```

#### NGC ENERGY COMPANY

#### NGC OPERATED - DRILLING

NGC Energy Company Pleasant Valley Federal #24-33-B

#### TIGHT HOLE

1980' FWL 660' FSL, SE/SW Sec 33-T8S-R16E, Duchesne Co., UT. PTD 6500'. Objective: Green River. Elevations: 5715'GR, 5730'KB. BPO NGCE has 100% WI; 81.25% NRI. APO NGCE has 75% WI; 65.625% NRI. (87.5% NRI Lease). Contractor: Olsen Rig #5. Spud: 8/15/88 (DHD); 8/20/88 (CORO). AFE #8908. TOTAL AFE AMT \$429,145. DRLG AFE AMT \$118,870. COMP AFE AMT \$310,275.

8-15-88	Tricon Kent moved in on 8-13-88 and started location. Finished building location yesterday. Daily cost \$3,180; CDC \$3,180
8-16-88	TD 75'. Leon Ross spudded 12-1/4" surface hole @ 4:00 PM, 8-15-88. Drilled to 75' and SDFN. Daily cost \$0; CDC \$3,180
8-17-88	TD 300'. Leon Ross finished drilling 12-1/4" surface hole to 300' & SDFN. Daily cost \$0; CDC \$3,180
8-18-88	TD 315'KB. Ran 9-5/8" 7 jts of 47#/53.5#, L80/N80, (295.83') casing set @ 310'KB. Cemented w/165 sx class "G" + 2% CaCl2 + 1/4#/sk flocele. Good returns to surface. Present Operation: Build cellar and line reserve pit. Daily cost \$13,205; CDC \$16,385
8-19-88	Built cellar, lined & fenced reserve pit. Started filling pit. Installed and tested casinghead. Daily cost \$3,000; CDC \$19,385
8-20-88	TD 375'. Day 1. Drilling. MIRU Olsen Rig #5. Tested BOP's. Drilled out cement & shoe, Drilled to 375'. Survey: 1/4 DEG @ 331'. ME 8.3, VIS 27, PH 8.5. Daily cost \$4,195; CDC \$23,580
8-21-88	TD 1460'. Day 2. Drilling. Made 1085' in 25-1/2 hrs. Drilling at a rate of 42.5 FPH. Survey: 1/2 DEG @ 1283'. MW 8.3, VIS 27, PH 10.5. Daily cost \$10,745; CDC \$34,325
8-22-88	TD 2622'. Day 3. Drilling. Made 1162' in 23-1/2 hrs. Drilling at a rate of 49.4 FPH. Survey: 3/4 DEG @ 2273'. MW 8.3, VIS 27, PH 11. Daily cost \$10,560; CDC \$44,885
8-23-88	TD 3455'. Day 4. Drilling. Made 833' in 23-1/2 hrs. Drilling at a rate of 35.4 FPH. Survey: 1 DEG @ 3290'. Mud logger on @ 3500'. MW 8.3, VIS 27, PH 11.5. Daily cost \$8,110; CDC \$52,995

<b>D</b>				l Budg	approved. et Bureau No. 100	04-0135
Form 3160-5 (November 1983)	DEPARTMENT OF	STATES THE INTER	SUBMIT IN TRIPS (Other instruction (Other instruction)	D Per   DAPII	es August 31, 19	
(Formerly 9-331)	BUREAU OF LAND			U-490		
CLINID	RY NOTICES AND				M. ALLOTTEE OR TEI	BE NAME
(Do not use this fo	INTERPOLICES AND THE FOR PEUCH TOP	to deepen or plug	back to a different reservoir	r.		
1.	Jse "APPLICATION FOR PE	RMII— for such j	Proposes./		EEMENT NAME	
OIL GAS GAS	OTHER	<b>^^</b>	THE PERSON ASSESSED AS A STATE OF THE STATE			
2. NAME OF OPERATOR		. IN		8. FARM OR	LEASE NAME	
NGC ENERGY CON	1PANY		Kar Burd Y II 24 didn	Feder		
3. ADDRESS OF OPERATOR	East, Vernal, UT	84078		24-33	•	
4. LOCATION OF WELL (Rep	ort location clearly and in a	ccordance with any	State requirements.		ND POOL, OR WILDC	AT
See also space 17 below. At surface	.)				ment Butte	
				11. SEC., T.	, E., M., OR BLK. AND BY OR AREA	<b>)</b>
2103' FWL, 330	)' FSL, SE/SW			500	33, T8S, R1	16F
14. PERMIT NO.	15. ELEVATIO	vs (Show whether D	', RT, GR, etc.)	12. COUNTY	OR PARISH 13. 87	PATE
43-013-31214	5670	' GR		Duche	esne Ut	tah
16.	Check Appropriate Bo	x To Indicate N	lature of Notice, Repo	rt, or Other Data		
NOT	CICE OF INTENTION TO:		1	SUBSEQUENT SEPORT	OF:	
TEST WATER SHUT-OFF	PULL OR ALTER	CASING	WATER SHUT-OFF		REPAIRING WELL	$\neg$
FRACTURE TREAT	MULTIPLE COMP	<del></del>	FRACTURE TREATMEN	(T )	ALTERING CASING	
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDIZ	ING	*THEMNOONAE	
repair well (Other) Weekly S	CHANGE PLANS		(Other) (Norm: Report	t results of multiple of Recompletion Report	completion on Well	
Attached is	the weekly statutember 16, 1988.		•			
turougn sept	.ember 10, 1700.	_			-	-
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Copies: Div	7. OG&M DGWooden	; WGPaulsel	l; SFurtado; BHil	ll; LJorgense	n; HCulp	
18. I hereby certify that th	e foregoing is true and corre	ect	<del></del>	<del></del>		1000
SIGNED Larla	Hantira	_ TITLE	Office Superviso	DATE	Sept. 19,	1988
(This space for Federal	or State office use)				<del></del>	
	•	_ TITLE		DATE	l	
CONDITIONS OF APPI	ROVAL, IF ANY:					

#### NGC ENERGY COMPANY

# NGC OPERATED - COMPLETION

NGC Energy Company Pleasant Valley Federal #24-33-B

#### TIGHT HOLE

1980' FWL 660' FSL, SE/SW Sec 33-T8S-R16E, Duchesne Co., UT. PTD 6500'. Objective: Green River. Elevations: 5715'GR, 5730'KB. BPO NGCEC has 100% WI; 81.25% NRI. APO NGCEC has 75% WI; 65.625% NRI. (87.5% NRI Lease). Contractor: Western Oil Well Service Rig #21. Spud: 8/15/88 (DHD); 8/20/88 (CORO). AFE #8908. TOTAL AFE AMT \$429,145. DRLG AFE AMT \$118,870. COMP AFE AMT \$310,275.

Note: Under the Farmin agreement, this well must be completed by November 18, 1988.

9-8-88	Land and test tubing spool. Set & test deadmen. Dress location. <u>Today's Operation</u> : Waiting on completion tools. Daily cost \$2,350; CCC \$2,350
9-9-88 9-12-88 9-13-88	Waiting on completion tools. CCC \$2,350 Waiting on completion tools. CCC \$2,350 Day 2. MIRU Western Oil Well Service Rig #21. NU BOP's. Hook up pump & lines. PU 4-1/2" mill & 5-1/2" csg scraper & RIH w/80 jts of 2-7/8" 6.5#
. •	J-55 EUE tubing. SION. <u>Today's Operation</u> : Clean out to PBTD and run Cement Bond Log. Daily cost \$2,517; CCC \$4,867
9-14-88	Day 3. Finish RIH w/2-7/8" tbg, mill & scraper. Tagged PBTD @ 6322'. Circ hole clean w/3% KCL wtr. POOH w/tbg and tools. RU Welex and run Cement Bond Log from 6322' to 2150'. Est cement top @ 2400'. Pressure test casing to 4000#. Held OK. SION. Daily cost \$4,730; CCC \$9,597
9-15-88	Day 4. PU Howco 5-1/2" RTTS PKR and RIH w/2-7/8" tbg. Set PKR @ 6186' and pressure test to 2000# - held OK. RU and swab down tbg to 6100'. RU Welex. RIH w/1-9/16" thru tbg gun and perforate interval 6304'-09', 4 SPF, 0 DEG phasing. RU and swab well. No fluid entry. Pump & fill tbg w/3% KCL. Broke down perfs @ 2800#. Avg injection rate - 2 BPM @ 2200#, ISIP 1800#. RU & swab well dry. Recovered 36 bbls KCL wtr w/ very small trace of oil & whisper of gas. SION. Today's Operation: Test interval 6304'-09'. Daily cost \$4,697 CCC \$14,294

9-16-88

Day 5. SITP 50#, SICP 0# (PKR). RU & swab well. Had no fluid entry overnight and during four hourly runs. SION. Today's Operation: Frac interval 6304'-09' w/Western Company. Daily cost \$4,764; CCC \$19,058

				Form approved.	
Form 3160-5	UNITED S	TATES	SUBMIT IN TRIMICAT		No. 1004-0135
(November 1983)	TED 3	INILU FUE INTEDIA	1011		
(Formerly 9-331)	DEPARTMENT OF		verse side)	5. LEADE DESIGNATION	AND SMEIAL NO.
	BUREAU OF LAND	MANAGEMENT		บ-49092	
·			N. M. C. L. C.	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
SUN	IDRY NOTICES AND	REPORTS OF	N WELLS		
(Do not use this	form for proposals to drill or to Use "APPLICATION FOR PER	deepen or plug bec	k to a different reservoir		
	Use "APPLICATION FOR PER	411 - W.Y.			
1.		115 / 155	The second secon	7. UNIT AGREEMENT NA	ME
OIL GAS WELL	OTHER				
2. NAME OF OPERATOR		GE CE	EP 28 1988	8. PARM OR LEASE NAM	42
NGC ENERGY C	OMPANY			Federal	
			CH (IO(A)) AF	9. WELL NO.	
3. ADDRESS OF OPERATOR			DIVISION OF	J. W. J.	
85 South 200	East, Vernal, UT	84078 GL	GAS & MINING	24-33-B	
4. LOCATION OF WELL (F	Report location clearly and in acc	ordance with any St	ate requirements.	10. FIELD AND POOL, O	R WILDCAT
See also space 17 belo At surface	>₩.)	AAIFIE	TAITIAI	Monument Bu	itte
	3	CONFIL		11. SEC., T., R., M., OR I	BLK. AND
		Juin il		SURVEY OR AREA	,
2103' FWL, 3	30' FSL, SE/SW				
				Sec. 33, T8	
14. PERMIT NO.	15. ELEVATIONS	(Show whether DF, R	T, GR, etc.)	12. COUNTY OR PARISH	13. STATE
43-013-31214	5670'	CR		Duchesne	Utah
43-013-31214		O.K		1 Buchesite	1 0 0 0 0 11
16.	Check Appropriate Box	To Indicate Na	ture of Notice, Report, or	Other Data	
	•••				
1	NOTICE OF INTENTION TO:		8028	EQUENT REPORT OF:	
TEST WATER SHUT-O	FF PULL OR ALTER C.	Varia	WATER SHUT-OFF	REPAIRING V	WELL
	<del></del>	<del></del>	1	ALTERING CA	
FRACTURE TREAT	MULTIPLE COMPLI	FTE -	FEACTURE TREATMENT	<del>-</del>	
SHOOT OR ACIDIZE	- ABANDON®		SHOOTING OR ACIDIZING	ABANDONMEZ	***
REPAIR WELL	CHANGE PLANS	<u> _</u>	(Other)	<del></del>	
(Other) Weekly	y Status Report	x	(Note: Report resu	its of multiple completion apletion Report and Log for	on Well
17. DESCRIBE PROPOSED OF proposed work. If nent to this work.)	completed operations (Clearly well is directionally drilled, give	state all pertinent ( e subsurface location	letails, and give pertinent dat ns and measured and true ver	es, including estimated dat tical depths for all markers	e of starting any sand somes perti-
Attacl	hed is the weekly st	tatus report	for the subject w	ell from Septemb	er 17
through	gh September 23, 198	88.			
-	<b>5.7 C C C C C C C C C C</b>				
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10 I hereby sautifu than	the foregoing is true and correc	ŧ		_ · · · · · · · · · · · · · · · · · · ·	
10. I mereny certury coat	A CA A		a Cupantian	Cont	26 1089
SIGNED Aar	la Nanberg	TITLE Offi	ce Supervisor	DATE Sept.	26, 1988
Karla	Hanberg ()				
(This space for Feder	rai or State office use) _				
	•				
APPROVED BY		TITLE		DATE	<del></del>
CONDITIONS OF AP	PROVAL, IF ANY:				

9-23-88	RU Smith Ene	rgy and fr	ac as follows:
Rate		Volume	
(BPM)	<u>Pressure</u>	(Bbls)	<u>Event</u>
35	2000#	136	Pad of form
35	2100	238	Start 1# 20/40
35	2100	275	Start 2# 20/40
35	2100	317	Start 3# 20/40
35	1900	363	Start 4# 20/40
35	1900	414	Start 5# 20/40
35	1700	468	Start 6# 20/40
35	1700	529	Start 6# 16/30
35	1800	593	Start 7# 16/30
40	1850	604	6# 20/40 on form
40	1900	662	Start flush
40	1900	665	6# 16/30 on form
40	2200	729	7# 16/30 on form
30	3900	794	Shut down

Total sand = 66,500#, Total fluid = 24,800 gal
ISIP = 3800#, 15 min = 1900#. Today's Operation: Flow back
after frac. Daily cost 15,352; CCC \$89,366

Day 8. Check pressures: 300# tbq, 200# csq. Blow 9-19-88 down tbg. RU and swab well. Fluid @ 3100'. Swabbed well dry in 17 runs and recovered 66 bbls fluid. Made four hourly runs with 1/2 bbl per hour fluid entry. Recovered 68 bbls total for day. 14 bbls oil and 54 bbls water. Gas blowing steady 50 mcfpd. SION. Pressures this AM: 475# tbg, 200# csq, fluid level @ 4800'. Today's Operation: Move to next zone "F" sand 6144'-54'. Daily cost \$1,819'; CCC \$46,511 9-20-88 Sixteen hour SITP 475#, SITP 200#. Blow down tbg and rig up swab equip. Fluid level @ 4800'. Made three runs and recovered 8 bbls water & 8 bbls oil. Rig down swab. RIH w/tbg to 6322' - no sand fill. POOH w/2-7/8" tbg. Pick up Howco RBP & RIH w/2-7/8" tbg. Set RBP @ 6240' & pressure test to 2000#. POOH w/2-7/8" tbg and ret tool. RU Welex & RIH w/4" casing gun and perforate interval 6144'-54', 4 SPF, 120 DEG phasing, 40 holes. RD Welex & SION. Today's Operation: Frac interval 6144'-54' w/Smith Energy. Daily cost \$6,613; CCC \$53,124 RU Smith Energy and frac as follows: 9-21-88 <u>Volume</u> Rate Pressure Event 142 bbls Pad on form 35 BPM 2550# Start 1# 20/40 35 2500# 191 Start 2# 20/40 35 221 2600# Start 3# 20/40 35 2500# 255 Start 4# 20/40 297 35 2400# Start 5# 20/40 336 35 2200# Start 6# 20/40 35 2000# 383 Start 7# 20/40 42 2000# 434 Start flush 42 2000# 550 Shut dn - job complete 692 2800# ISIP = 2000 #, 15 min = 1700 #Today's Operation: Flow back after frac. Daily cost \$14,710; CCC \$67,834 Check pressures: CP = 1520#. Well blew to 0# in 9-22-88 3-1/2 hrs. RIH w/tbg and tag sand @ 6160'. Clean out to RBP @ 6240'. Move RBP to 6010' and set & test. POH. RU Welex and perf 5896'-5900',

SDFN. Daily cost \$6,180; CDC \$74,014

5902'-14' w/4" casing guns, 4 SPF, 90 DEG phasing.

9-16-88

Day 5. SITP 50#, SICP 0# (PKR). RU & swab well. Had no fluid entry overnight and during four hourly runs. SION. Today's Operation: Frac interval 6304'-09' w/Western Company. Daily cost \$4,764; CCC \$19,058

9-17-88

Day 6. RU Western Co to frac interval 6304'-10'. Started pad but had to shut down due to high surface treating pressure. RU Welex & RIH w/4" casing gun. Unable to get below 1500' (heavy oil). RD Welex. RIH w/2-7/8" tbg to 2000'. Circ well w/75 bbls of 3% KCL @ 300 DEG F. POOH w/tbg. RU Welex & RIH w/4" csg gun. Reperforate interval 6304'-10', 4 SPF, 120 DEG phasing. Rig Western Co. back up and frac as follows:

Rate	_	Volume	
(BPM)	Pressure	(Bbls)	<u>Event</u>
5.0		0	Start pad
32.0	4000	146	Pad @ perfs
35.0	3900	250	Start 1/2# 20/40
35.0	3800	299	Start 1# 20/40
36.0	3500	349	Start 2# 20/40
36.0	3500	396	1/2# @ perfs
36.0	3300	401	Start 3# 20/40
35.0	3300	445	1# 0 perfs
35.0	3300	481	Start 4# 20/40
35.0	3400	495	2# @ perfs
35.0	3000	564	Start 5# 20/40
35.0	3850	635	Flush early
10.0	5000	642	Shut down (Screen out)

5 min 3000, 10 min 2600, 15 min 2200. SION. <u>Today's Operation</u>: Clean out sand and swab test interval 6304'-10'. Daily cost \$23,311; CCC \$42,369

9-18-88

Day 7. Check pressure: 1500# SICP. Flow well to pit on 12/64" chk. Well blew dead in 90 min. and recovered 60 bbls sand laden fluid. RIH w/2-7/8" tbg w/notched collar. Circulated well clean every 1000' w/3% KCL. Tagged solid sand column @ 6186'. Cleaned out to PBTD @ 6322'. Pull tbg to 6180'. RU and swab well. Fluid level @ surface. Made 21 runs and recovered 103 bbls fluid. Had 5% oil recovery on last 6 swab runs and slight gas show. Left fluid level @ 3200'. SION. Today's Operation: Swab test interval 6304'-10'. Daily cost \$2,323; CCC \$44,692

#### NGC ENERGY COMPANY

# NGC OPERATED - COMPLETION

NGC Energy Company Pleasant Valley Federal #24-33-B

#### TIGHT HOLE

1980' FWL 660' FSL, SE/SW Sec 33-T8S-R16E, Duchesne Co., UT. PTD 6500'. Objective: Green River. Elevations: 5715'GR, 5730'KB. BPO NGCEC has 100% WI; 81.25% NRI. APO NGCEC has 75% WI; 65.625% NRI. (87.5% NRI Lease). Contractor: Western Oil Well Service Rig #21. Spud: 8/15/88 (DHD); 8/20/88 (CORO). AFE #8908. TOTAL AFE AMT \$429,145. DRLG AFE AMT \$118,870. COMP AFE AMT \$310,275.

Note: Under the Farmin agreement, this well must be completed by November 18, 1988.

9-8-88	Land and test tubing spool. Set & test
	deadmen. Dress location. Today's Operation:
	Waiting on completion tools. Daily cost \$2,350;
	CCC \$2,350
9-9-88	Waiting on completion tools. CCC \$2,350
9-12-88	Waiting on completion tools. CCC \$2,350
9-13-88	Day 2. MIRU Western Oil Well Service Rig #21. NU
	BOP's. Hook up pump & lines. PU 4-1/2" mill &
	5-1/2" csg scraper & RIH w/80 jts of 2-7/8" 6.5#
	J-55 EUE tubing. SION. Today's Operation: Clean
	out to PBTD and run Cement Bond Log. Daily cost
	\$2,517; CCC \$4,867
9-14-88	Day 3. Finish RIH w/2-7/8" tbg, mill & scraper.
J 14 00	Tagged PBTD @ 6322'. Circ hole clean w/3% KCL wtr.
	POOH w/tbg and tools. RU Welex and run Cement Bond
	Log from 6322' to 2150'. Est cement top @ 2400'.
	Pressure test casing to 4000#. Held OK. SION.
	Daily cost \$4,730; CCC \$9,597
9-15-88	Day 4. PU Howco 5-1/2" RTTS PKR and RIH w/2-7/8"
J 13 00	tbg. Set PKR @ 6186' and pressure test to 2000# -
	held OK. RU and swab down the to 6100'. RU Welex.
	RIH w/1-9/16" thru tbg gun and perforate interval
,	6304'-09', 4 SPF, 0 DEG phasing. RU and swab well.
	No fluid entry. Pump & fill tbg W/3% KCL. Broke
	down perfs @ 2800#. Avg injection rate - 2 BPM @
	2200#, ISIP 1800#. RU & swab well dry. Recovered
	36 bbls KCL wtr w/ very small trace of oil &
	whisper of gas. SION. <u>Today's Operation</u> : Test
	interval 6304'-09'. Daily cost \$4,697 CCC
	\$14,294
	447,427

Form 3160-5					Form approved.	
(November 1983)	UMITED ST.	ATES	SUBMIT IN TRIE		Budget Bureau No. 100 Expires August 31, 19	
(Formerly 9-331) DEPA	ARTM OF T	HE INTERI	OR (Other instruction verse side)	n re-	LEASE DESIGNATION AND SE	
	JREAU OF LAND M	ANAGEMENT	•		U-49092	
**************************************					. IF INDIAN, ALLOTTEE OR TEI	BE NAME
SUNDRY	NOTICES AND	KEPUKIS C	/IN AACTTO	ie		
(Do not use this form for Use "Al	PLICATION FOR PERM	IT—" for much pr	oposals)	23		
1.		DA	a Caelly/	3 110 7	. UNIT AGREEMENT NAME	
WELL GAS OT	HER	INT	g velov (i			
2. NAME OF OPERATOR	· . · · · · · · · · · · · · · · · · · ·		0 č ± () 0 4000	3)11	. FARM OR LEASE NAME	
NGC ENERGY COMPANY	7		OCT 03 1988		Federal	
3. ADDRESS OF OPERATOR				9	. WELL NO.	
85 South 200 East,			DIVISION OF		24-33-B	_
4. LOCATION OF WELL (Report locs See also space 17 below.)	tion clearly and in accor	dance with any	UHE: GAB·安州州ING	1	O. FIELD AND POOL, OR WILDC	AT
At surface	AA	A 9 8 7 7 8 8			Monument Butte	
			· NIIAI	1	1. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
2103' FWL, 330' FS	SL, SE/SW 🐸 🐸		· I A H H H S S S S S S S S S S S S S S S S			
					Sec. 33, T8S, R1	
14. PERMIT NO.	1	Show whether DF.	RT, GR, etc.)	1	2. COUNTY OR PARISH 13. ST	ATE
43-013-31214	5670'	GR			Duchesne Ut	ah
16. Char	L Annopoieta Roy	la Indicata N	ature of Notice, Rep	ort or Oth	er Data	
	• • •	i arancair i	21016 OF FROMES, NEP	-	REPORT OF:	
NOTICE OF	INTENTION TO:		·	aussequan	E REPURE OF .	<del></del>
TEST WATER SHUT-OFF	PULL OR ALTER CAS	120	WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	MULTIPLE COMPLET	z	PRACTURE TREATM	ENT	ALTERING CASING	
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACIDI	ZING	ABANDON MENT*	
REPAIR WELL	CHANGE PLANS		(Other)	rt reenits of	multiple completion on Well	
(Other) Weekly Statu  17. DESCRIBE PROPOSED OR COMPLET proposed work. If well is completed to the complete state of the complete sta			Completion o	r Recompletio	n Report and Log form.)	
nent to this work.) •						
Attached is the	•	report fo	r the subject w	ell from	n September 24	
Attached is the through Septemb	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell fron	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
	•	report fo	r the subject w	ell from	n September 24	
through Septemb	er 30, 1988.		r the subject w			
Copies: Div	Gam; DGWooden;					
Copies: Div	Gam; DGWooden;	WGPaulsel	l; SFurtado; BH	ill; LJc	orgensen; HCulp	1000
through Septemb	Gam; DGWooden;	WGPaulsel		ill; LJc		1988
Copies: Division of the control of t	Gam; DGWooden;	WCPaulsel	l; SFurtado; BH	ill; LJc	orgensen; HCulp	1988
Copies: Div	Gam; DGWooden;	WCPaulsel	l; SFurtado; BH	ill; LJc	orgensen; HCulp	1988

	Rate	Pressure	Volume	•
	(BPM)	(Casing)	(BBLS)	Event
	55	1900	1457	6-1/2# 16/30 @ perfs
	55	2000	1535	Start flush
	55	2000	1550	7# 16/30 @ perfs
	55	2900	1649	Shut down
	ISIP =	1800#		
	Avg 50	BPM @ 2000	‡	
	Max pre	ess 2900#		
	Daily o	ost \$29,673	3; CCC \$1	50,961
9-30-88				SICP = 0. RIH & tag
	sand @	4769'. Cle	ean out to	RBP @ 5100'. POOH
	w/RBP.	RIH & tag	sand @ 630	00'. Pull up 4 jts &
•				b runs (24 bbls) & well
				ols, 5% oil, quite
				N. Daily cost \$1,999
	ĆCC \$15			• • • • • • • • • • • • • • • • • • •

Rate	Pressure	Volume	
(BPM)	(Casing)	(BBLS)	<u>Event</u>
35.6	1500	653	6# 16/30 @ perfs
35.6	1500	662	Start flush
35.6	1700	717	7# 16/30 @ perfs
35.6	2100	786	Shut down
ISIP	= 1600		
15 min	= 1400		
786 Bb	ls of fluid		
38,500	# 20/40 sand	1 .	
28,000	# 16/30 sand	1	
m = 3 = i= 1 =	0	mi are basis	after from and war

Today's Operation: Flow back after frac and move up to next interval. Daily cost \$17,502; CCC \$110,438

9-28-88

Day 15. Check pressure 650#. Flow well to pit on 12/64" choke. Well blew dead in 30 min. RIH w/2-7/8" tbg & Howco ret tool. Tagged sand @ 5406'. RU & clean out sand to RBP @ 5470'. Release RBP & move up to 5100'. Reset RBP & pressure test to 2000# - held ok. POOH w/tbg. RU Welex. RIH w/4" csg guns and perforate intervals 4934'-64', 4992'-5004', 4 SPF, 120 DEG phasing. PU Howco RTTS PKR & RIH w/tbg. Set pkr @ 4970'. Pump into interval 4934'-64'. Perfs broke @ 2200# Avg 4 BPM @ 1800#. Pump into interval 4992'-5004'. Perfs broke @ 1800#. Avg 4 BPM @ 1350#. Used 3% KCL water to break down. POOH w/tbg and PKR. Fill casing w/3% KCL water. SION. Daily cost \$10,850; CCC \$121,288

9-29-88

Day 16. RU Smith Energy & frac interval 4934'-5004' as follows:

4934 -3	004 as 10.	TIOM2.	
Rate	Pressure	Volume	
(BPM)	(Casing)	(BBLS)	<u>Event</u>
45	2200	0	Start Pad
45	1900	144	Pad @ perfs
45	1900	595	Start 1# 20/40
45	1800	655	Start 2# 20/40
45	1900	709	1# @ perfs
45	1900	725	Start 3# 20/40
45	1900	769	2# @ perfs
45	1800	807	Start 4# 20/40
45	1800	839	3# 0 perfs
45	1800	899	Start 5# 20/40
48	1800	921	4# @ perfs
50	1800	1004	Start 5-1/2# 20/40
50	1800	1013	5# 0 perfs
50	1800	1118	5-1/2# @ perfs
50	1800	1129	Start 6# 20/40
50、	1800	1243	6# @ perfs
50	1800	1254	Start 6# 16/30
50	1800	1343	Start 6-1/2# 16/30
50	1800	1368	6# 16/30 @ perfs
50	1800	1436	Start 7# 16/30

9-23-88	RU Smith	Energy and	frac as	follows:	
Rate		Volum			
(BPM)	Pressur	e (Bbls	<u>Ever</u>	<u>ıt</u>	
35	2000#	136		of form	
35	2100	238		t 1# 20/40	
35	2100	275		t 2# 20/40	
35	2100	317	Star	t 3# 20/40	
35	1900	363	Star	t 4# 20/40	
35	1900	414		t 5# 20/40	
35	1700	468		t 6# 20/40	
35	1700	529		t 6# 16/30	
35	1800	593		t 7# 16/30 0/40 on form	
40	1850	604 662		t flush	
40 40	1900 1900	665		.6/30 on form	
40	2200	729		.6/30 on form	
30	3900	794		down	
JU Total sa		O#, Total			
TOTAL Sa	800# 15 m	in = 1900#	. Todav'	s Operation: Flow back	k
after fr	ac. Dail	y cost 15,	352: CCC	: \$89.366	_
9-24-88	Check Pre	ssure: 19	hr SICP	= 775#. Flow well to	
J 24 00				r). Well blew down in	
	1-1/2 hrs	and recov	ered 45 b	bls water. PU Howco	
	ret. tool	& RIH w/2	-7/8" tbg	. Tagged sand @ 5938'.	
	RU and cl	ean out sa	nd to RBP	0 @ 6010'. Release RBP	
				Pressure test RBP to	
	2000#. H	eld OK. P	OOH w/tbg	RU Welex & RIH w/4"	
	casing gu	n and perf	5378 <b>′-</b> 94	' 4 SPF 120 DEG	
		Fill hole	w/3% KCI	. Shut down for	
	weekend.			Shut down for	
	weekend.			y A.M. Daily cost	
		CC \$92,936			
9-27-88	-	RU Smith E	nergy Com	pany and frac as	
	follows:		Volume		
		ressure	(BBLS)	Event	
	(BPM) (	<u>Casing)</u> 0	0 (DDTP2)	Start pad	
	35 35	2100	125	Pad @ perfs	
	35.5	2100	238	Start 1# 20/40	
	35.5	2100	275	Start 2# 20/40	
	35	2000	317	Start 3# 20/40	
	35.6	1800	362	1# @ perfs	
	35.6	1800	363	Start 4# 20/40	
	35.6	1700	399	2# @ perfs	
	35.6	1650	414	Start 5# 20/40	
	35.6	1650	441	3# @ perfs	
	35.6	1600	468	Start 6# 20/40	
	35.5	1600	481	4# @ perfs	
	35.6	1600	529	Start 6# 16/30	
	35.6	1600	538	5# @ perfs	
	35.6	1450	592	6# 20/40 @ perfs	
	35.6	1450	593	Start 7#	
·					

Form 3160-4 (November 1983) (formerly 9-330)

# TED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLI (See other instructions on reverse side)

5.	LEASE	DESIGNATION	AND	SERIAL	NO

Budget Bureau No. 1004-0137 Expires August 31, 1985								
LEASE	DESIGNATION	AND	SERIAL	NO.				
11 /. 0	000							

										U-4:	092	
WELL CO	OMPLE"	TION O	R RECO	MPLET	ION	REPORT	AN	D LO	G *	6. IF INC	IAN, ALI	LOTTEE OR TRIBE NAME
1a. TYPE OF WI		OIL (			RY 🔲	Other				7. UNIT	GREEME	NT NAME
b. TYPE OF CO	MPLETION			0		Other						
NEW X	OVER [	DEED-	PLUG BACK	DIE!	· Gr		117	-1-4-1		S. FARM	OR LEAS	E NAME
2. NAME OF OPER	ATOR				IN		W.	THI.	=	Fede		
NGC Ener	gy Comp	any				51	$\Pi I$	V/ 5	$W_{I}$	9. WELL	NO.	
3. ADDRESS OF OF				0	ĬĀſ		- C	ح روح		24-3		OL, OR WILDCAT
85 South 4. LOCATION OF W	200 Ea	st, Ver	nal, UT	84078 accordance	- H	y SIGE Faul	-Aei	ន្តខ្ពស		·		
			' FSL, S		(Mary 400)	001.3	LTI			11. SEC	T., R., M.	Butte , or block and survey
At top prod. is			102,	<i>5</i> 2 5.1		DIVIS	ION (	0F		OR AI	REA	
			٠			OIL, GAS				Sec.	33,	T8S, R16E
At total depth				1 14 pe	RMIT NO.			ISSUED		12. COUN	- OB	13. STATE
										PARIS	H	
15. DATE SPUDDED	16. DAT	E T.D. REACH	IED   17. DA		013-3 (Ready t			22/88	DF. RKR.	Duch	esne	Utah ELEV. CASINGHEAD
8/15/88	8/	30/88	1	0/1/88				5670'		,,,		5670'
20. TOTAL DEPTH, MI			CK T.D., MD 4			TIPLE COMPL		23. INT		ROTARY	roors	CABLE TOOLS
6411'			29'						<b>→</b>	XX		
24. PRODUCING INT						MD AND TVD): 5902-1		5378-0	<i>/</i> 4			25. WAS DIRECTIONAL SURVEY MADE
oreen kry		•	4, 4934-	-	3,000	, 3702-1	7, .	3370-3	٠,		İ	••
26. TYPE ELECTRIC						<del></del>					1 27.	Yes WAS WELL CORED
DIL-SFL-F	1											No
28.			CAS	ING RECO	RD (Rep	ort all string	s set is	n well)				· · · · · · · · · · · · · · · · · · ·
CASING SIZE	WEIG	HT, LB./FT.	DEPTH 8	ET (MD)	но	LE SIZE		CES	IENTING	RECORD		AMOUNT PULLED
9-5/8"	47#/	53.5#	310	<u>'</u>	1	2-1/4"	165	sx "	G" +	2% CaC1	2	
		//	_	<del></del>			.					. <u>  </u>
5-1/2"		17#	6410	<u> </u>		7-7/8"	lea			Howco		
29.		LIN	ER RECORD	)	<u> </u>	······································	tai	30.		"G" + TUBING RI		alseal
SIZE	TOP (M	<del></del>	TOM (MD)	SACKS CE	MENT*	SCREEN (M	D)	SIZE		DEPTH SET		PACKER SET (MD)
								2-7/8	8"	6162'		· N/A
31. PERFORATION RI	•	-	id number)			32.	AC	ID, SHOT				UEEZE, ETC.
4934-6310	•	noles)				DEPTH IN		(MD)	ł .			MATERIAL USED
4" casing 4 spf, 12					٠.	4934-5 5378-5				6 gal, 6 gal,		
4 spi, 12	U pnas	sing				5896-5		<del></del>		l gal,		
						6144-6				9 gal,		
33.*					PROI	OUCTION 6		6310		O gal,		
ATE FIRST PRODUC	TION	PRODUCTIO	N METHOD (	Flowing, ga	a lift, p	ımping—size	and t	ype of pun	np)	WE	LL STAT	US (Producing or
10/9/88	1	Pump										Producing
ATE OF TEST	HOURS	İ	CHOKE SIZE	PROD'N TEST 1		OIL-BBL.		GASM		WATER-	BBL.	GAS-OIL RATIO
10/9/88	CASING		CALCULATED	011,8	<b>→</b>	37	MCF.	0	WATER-	4.0	OIL	N/A GRAVITY-API (CORR.)
	15		24-HOUR RAT					1			ļ	32.0
4. DISPOSITION OF			vented, etc.)	)						TEST WIT		
Used f	or fuel	and so	ld or v	ented						Pete	Hedd1	eson
5. LIST OF ATTACE										<del></del>		
			<del> </del>		. <del></del> .			<del></del>	<del></del>		<del> </del>	
6. I hereby certify	that the	foregoing an	d attached i	niormation	is comp	iete and corr	ect as	determin	ed from	ail availabl	e record	8
signed	Nike:	McM	can	тіт	LE F	etroleur	n En	gineer	<u> </u>	DA	TE	10-11-88
Mi	<u>chael I</u>	McMic	an									

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38. GEOLOGIC MARKERS recoveries): FORMATION TOP BOTTOM DESCRIPTION, CONTENTS, ETC. TOP NAME TRUE MEAS. DEPTH VERT. DEPTH Green River Meas Depth Subsea Top 1757' +39581 Α 4267' +1448' В 4509' +1206 DC Marker 49061 + 809' D 5160' + 555' E 5280' + 435' E2 54491 + 266' F 5812' - 97' 6232' Basal LS - 517' DTS DRN JRB AND GAS GLH 뫈

Copies: Div.

OG&M; LKeller; BHill; PSchnurr; Ralph E. Davis; DGWooden; SFurtado; MClarke; IChai

HCu1p

Form 3160-5	UNA D S	TÁTES	GIIDMIM IN MDII	Budge	approved. et Bureau No. 1004	-0135
(November 1983) (Formerly 9-331)	DEPARTMENT OF	THE INTERI	SUBMIT IN TRI (Other instruction OR verse side)	re- 5. LEASE D	es August 31, 1985	
(Formerry 92331)	BUREAU OF LAND			U-49	192	
					N, ALLOTTEE OR TRIBE	NAME
(Do not use thi	NDRY NOTICES AND  s form for proposals to drill or t use "APPLICATION FOR PEF	REPORIS Condeepen or plug b	A WELLS	(ate		
OIL GAS. WELL WELL	OTHER	in	Chied W	7. UNIT AG	BEANT NAME	
2. NAME OF OPERATOR		777	OCT 14 1988	8. FARM OF	LEASE NAME	
NGC ENERGY (				Fede		···-
3. ADDRESS OF OPERATO		0/070	DIVISION OF	9. WELL NO		
85 South 200	) East, Vernal, UT Report location clearly and in ac	84U/8	OIL, GAS & MINING	24-3: 10. FIELD	3-B ND POOL, OR WILDCAT	
See also space 17, be At surface	low.)				ment Butte	
	330' FSL, SE/SW	ONFIL	ENTIAL	11. SEC., T.	, S., M., OR BLW. AND	
	e			Sec.	33, T8S, R16	E
14. PERMIT NO.	and the second second	s (Show whether DF,	RT, GR, etc.)	12. COUNTY	OR PARISH 13. STAT	re -
43-013-31214	5670*	GR	·····	Duch	esne Uta	ıh
المجموعة المالية المال	Check Appropriate Bo	x To Indicate N	ature of Notice, Rep	port, or Other Data	. •	
ĝ l Decimate re	NOTICE OF INTENTION TO:			SUBSEQUENT REPORT	OF:	
TEST WATER SHUT-	PULL OR ALTER O	ASING	WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT	MULTIPLE COMPI	ETE	FRACTURE TREATM	ENT	ALTERING CASING	_
SHOOT OR ACIDIZE	ABANDON*		SHOOTING OR ACID	DIZING	ABANDONMENT*	_
REPAIR WELL	CHANGE PLANS		(Other)	ort results of multiple	completion on Well	لــا
proposed work. I nent to this work.)  Operator 1	R COMPLETED OPERATIONS (Clearly f well is directionally drilled, given by the subject coduction for Octobe	well was pu	t on production	n October 7, 19	988 at 4:30 p	a berti-
Future rep	oorts will be on For	m 3160-6, M	onthly Report	of Operations.		
•						
			-			
•						
¥	<u>.</u>					
	•			•		
Copies: I	oj OG&M DGWooden;	WGPaulsell	; SFurtado; BHi	ill; LJorgenser	; HCulp	
8. I hereby certify tha	t the foregoing is true and corre		· · ·		0-1-110	100
SIGNED Karla	Hanberg	TITLE Of	fice Supervison	DATE	October 12	, 198
(This space for Fed	Hanberg U eral or State office use)					
( This share for Lea	U VARIO VARIO LIGO/					
APPROVED BY		TITLE		DATE	1	

CONDITIONS OF APPROVAL FOR GAS VENTING/FLARING Federal 24-33-B Section 33, Township 8 South, Range 16 East Uintah County API No. 43-047-31214 December 2, 1988

Based on verbal communication between John Baza of the Utah Division of Oil, Gas and Mining and Jerry Kenczka of the U. S. Bureau of Land Management, the operator shall comply with the following conditions during the period of gas venting/flaring:

- 1. The well may be fully produced and associated gas vented or flared as long as the producing gas-oil ratio (GOR) remains 2000:1 or less as averaged on a monthly basis.
- 2. If the GOR exceeds 2000:1, the well may be produced on a restricted basis the restricted rate of gas production being equivalent to what a well having a GOR of 2000:1 would produce at 100 percent deliverability, or alternatively, the restricted rate of gas production shall be 100 MCF per day maximum. The operator may vent or flare the greater of either amount.
- 3. The operator shall also comply with the applicable federal regulations and federal lease requirements concerning oil and gas operations, including any other conditions of approval issued by the U.S. Bureau of Land Management in this matter.

013/20

Form 3160-5	LEITED STATES	SUBMIT IN TR	ICATE•	Form approved. Budget Bureau I Expires August	
(November 1983) (Formerly 9-331) DEPARTN	IT OF THE INT		on re-	5. LEASE DESIGNATION	
BUREA	U OF LAND MANAGEM	ENT		U-49092	
SUNDRY NOT	CES AND REPORT	S ON WELLS	1	6. IF INDIAN, ALLOTTEE	OE TRIBE NAME
(Do not use this form for propos Use "APPLICA	als to drill or to deepen or pi	lug back to a different reservo	ir.		
1.	ID	15 GELVIS		7. UNIT AGREEMENT NA	XE
OIL CAS CAS OTHER		5		·	
2. NAME OF OPERATOR		OCT 21 1988		8. FARM OR LEASE NAM Federal	2
NGC Energy Company				P. WELL NO.	
3. ADDRESS OF OPERATOR	-1 IIM 0/070	DIVISION OF	}	24-33-B	
85 South 200 East, Very 1. Location of Well (Report location of	nal, UT 84078 early and in accordance with	an, Olar GAS & MINING		10. FIELD AND POOL, OR	WILDCAT
See also space 17 below.) At surface	19 19 2 5 T	remerated at		Monument But	
2103' FWL, 330' FSL, SI	E/SW	# # # # # # # # # # # # # # # # # # #	n .	11. SEC., T., R., M., OR B SURVEY OR AREA	LE. AND
·	<b>₩</b> 9₩9₽%	The Late of the State of the St	ļ	Sec. 33, T89	2 P16F
14. PERMIT NO.	15. ELEVATIONS (Show whether	er DF. BT. GR. etc.)		12. COUNTY OR PARISH	
43-013-31214	5670' GR	er or, ma, and today		Duchesne	Utah
	·	N. (N. 6	. 0.1	D .	<del></del>
18. Check Ap	propriate Box to Indicat	e Nature of Notice, Repo			
NOTICE OF INTENT	NON TO:		SUBSEQUEN	T REPORT OF:	
TEST WATER SHUT-OFF	CLL OR ALTER CASING	WATER SHUT-OFF		repairing w	
	ULTIPLE COMPLETE	FRACTURE TREATME		ALTERING CA	
	BANDON*	SHOOTING OR ACIDI	ZING	ABANDONMEN	
(Other) NTL-2B	X	(Nors: Repo	rt results of	multiple completion on Report and Log for	n Well
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.) *	ATIONS (Clearly state all pert	4		aluding antiquated date	of -to-time and
will be fiberglass will be taken by true Bridgeland.  Operator also propose with 1:1 slopes, 5'	ck and disposed of es construction of leep and 10' squar	at Grant Hansen's an emergency pit at bottom. This	to be 2 pit wi	20' square at	surface
bermed and only used	in emergency situ	ations. Any liqui	ids disc	narged to the	pir
will be removed with:	in 24 hrs.		- 1 · · · · · · · · · · · · · · · · · ·		
			2.7	•	
	001	AIT/NECTAN	1		
	(,(1))	IF IF IN I I F	<b>\</b> L	_	
	UUI				
		:		*	
Copies: Div, OG&M	DGWooden; WPaulse	ell; BHill; SFurtac	io; LJo	rgensen; HCul	
18. I hereby certify that the foregoing is					
Just The Missing		Petroleum Engineer	c	DATE 10/18/	88
Michael L. McMi	can				
(This space for Federal or State office	use)		A		Ciata
APPROVED BY	TITLE _		•	pted by the	_
CONDITIONS OF APPROVAL. IF AN	1 <b>A.</b> •			ah Division	
Federal Approval of this			Oil, G	ias and Mir	ning
Action is Necessary	*See Instructi	ions on Reverse Side	•	11-1-88	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to new to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form	3160	-5
(Nove	mber	1983)
(Form	erly	9 - 331)

# D STATES SUBMIT IN TRIPL OF THE INTERIOR (Other instructions verse side)

Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-49092

7. UNIT AGREEMENT NAME

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES	AND	REPORTS	ON	WELLS
----------------	-----	---------	----	-------

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.)

WELL X OTHER 2. NAME OF OPERATOR NGC Energy Company

3. ADDRESS OF OPERATOR 85 South 200 East, Vernal, UT 84078

LOCATION OF WELL (Report location clearly and in accordance with See also space 17 below.)
At surface

2103' FWL, 330' FSL, SE/SW

21 1988

8. FARM OR LEASE NAME Federal 9. WELL NO.

24-33-B

10. FIELD AND POOL, OR WILDCAT

Monument Butte 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

DIVISION OF Sec. 33, T8S, OIL, GAS & MINING R16E

Duchesne

Utah

14. PERMIT NO. 43-013-31214

16.

#### Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

15. ELEVATIONS (Show whether DF, RT, GR,

5670' GR.

NOTICE OF INTENTION TO:			l l	BUBBAQUENT BELUET OF.					
			<u> </u>	٦		1	<del></del> 1		_
EST WATER SHUT-OFF		PULL OR ALTER CASING				WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE	3			FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE		ABANDON*				SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS	<u> </u>	_		(Other)	140 -4		Ļ
Other) Venting	of Na	tural Gas	X	j	-	Completion or Reco	mpleti	multiple completion on Well on Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) •

Operator requests an extension of 90 days for the venting of natural gas. is presently venting approximately 490 MCF/D.

Our plans are to connect the well to Amsel's gathering system (now operated by Triangle Control Systems) which is now in operation and we expect them to tie-in this well in the near future.

# CONFIDENTIAL

Copies: Div. OG&M DGWoode	n; WPaulsel	ll; BHill; SFurtado; LJo	rgensen; HCulp
18. I bereby certify that the foregoing is true and considered to the signal of the si		Petroleum Engineer	DATE 10/19/88
(This space for Federal or State office use)  APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE	OF UTA	D BY THE STATE H DIMISION OF
Federal approval of this action is required before commencing operations.	*See Instruc	DATE: 12-2	S, AND MINING

# UNDESTRABLE EVENT REPORT



DIVISION OF OIL, GAS & MINING

Subject: Report of Undesirable Event	OIL, GAS & MINING
Date of Occurrence: 10/27/88	Time of Occurrence: Approx. (a.m., 1
	Time Reported to USGS: 3:30 a.m., (
Location: State Utah	Byron Tolman County Duchesne
SE 1/4 SW 1/4 Section 33 F. 8S	., R. 16 E., SLB & Meridian
Operator: NGC Energy Company	
Surface Ownership: FEDERAL, INDIAN, FE	•
Lease Number: <u>U-49092</u> ; Unit Na	ame or C.A. Number
Type of Event: BLOWOUT, FIRE, FATALITY SALTWATER SPILL, TOXIC OIL AND TOXIC FLUID SPI GAS VENTING, or OTHER	ILL, SALTWATER AND TOXIC FLUID SPILL,
Cause of Event: Well surged and overfload a gas/oil mist being sprayed and wind blequipment and some off location.	owed the heater treater resulting in lown across some of the location and
Volumes of Pollutants I. Discharged II. Recovered	-
Time Required to Control Event (in hou	rs): Approx. 5 min. to shut in well
Action Taken to Control the Event, Desc Clean-up Procedures, and Dates: Site `with	cription of Resultant Damage, and equipment cleaned as well as possib backhoe and hot water on 10/27/88.
Cause and Extent of Personnel Injury:	None
Other Federal, State, and Local Govern	mental Agencies Notified: N/A
Action Taken to Prevent Recurrence:	Heater treater adjusted and well choked pack.
General Remarks:	
Signature	DateOctober 27, 1988
Michael L. McMican	

11/22/88 DETAIL WELL DATA BY API MENU: OPTION 00 SEC TWISHP API NUMBER: 4301331214 PROD ZONE: GRRV range ) 33 08.0 S 16.0 E ENTITY: 10913 ( SESW WELL NAME: FEDERAL 24-33-B OPERATOR: NO700 ( NATURAL GAS CORP OF CA MERIDIAN: S 105 ( MONUMENT BUTTE FIELD: CONFIDENTIAL FLAG: C CONFIDENTIAL EXPIRES: 900101 ALT ADDR FLAG: \* \* \* APPLICATION TO DRILL, DEEPEN, OR PLUG BACK \* \* \* 18. TYPE OF WELL (OW/GW/OT) OW 5. LEASE NUMBER: U-49092 LEASE TYPE: 1 4. SURFACE LOC: 0330 FSL 2103 FWL 7. UNIT NAME: PROD ZONE LOC: 0330 FSL 2103 FWL 19. DEPTH: 6500 PROPOSED ZONE: GRRV 21. ELEVATION: 5670' GR APD DATE: 880722 AUTH CODE: R615-3-3 \* \* \* COMPLETION REPORT INFORMATION \* \* \* DATE RECD: 881014 17. COMPL DATE: .. 884001 20. TOTAL DEPTH: 6411 15. SPUD DATE: 880815 24. PRODUCING INTERVALS: 4934-64, 4992-5004, 5378-94, 5902-14, 5896-5900, 6144\* 4. BOTTOM HOLE: 0330 FSL 2103 FWL 33. DATE PROD: 881009 WELL STATUS: POW 24HR OIL: 37 24HR GAS: 0 24HR WTR: 40 G-O RATIO: 0 \* \* \* WELL COMMENTS \* \* \* API GRAVITY: 32.00 880815 REQUEST FOR CONF STATUS EFF 8/12/88:880818 ENTITY ADDED: **\*6154,6304-6309** 

OPTION: 21 PERIOD(YYMM): 8801 API: 4301331214 ZONE: GRRV ENTITY: 10913

Natural Gas Corporation of California

NGC



DIVISION OF OIL. GAS & MINING

October 28, 1988

Bureau of Land Management Vernal District 170 South 500 East Vernal, UT 84078 Division of Oil, Gas & Mining 355 West North Temple 3 Triad Center, Suite 350 Sale Lake City, UT 84180-1203

Re: Report of Undesirable Event #24-33-B Federal SE/SW Sec. 33, T8S, R16E Duchesne County, Utah #3-0/3-3/2/4

\.GC

Gentlemen:

Attached, as per NTL 3A, is a completed report describing an oil spill which occurred on our Lease U-49092 October 27, 1988. The oil was mostly contained on location and cleaned up as well as possible with a backhoe and hot water.

NGC

Please contact me in the Vernal office if any additional information is needed.

Sincerely,

Myke Mc Mican

Michael L. McMican Petroleum Engineer

MLM/kh

Attachments

# GEOLOGICAL WELLSITE REPORT

NGC Energy Company

NGC #24-33-B SE SW Sec. 33, T8S, R16E Duchesne County, Utah

John R. Wingert Consultant

#### WELL DATA

OPERATOR: NGC Energy Company

WELL NAME: NGC #24-33-B

LOCATION: SE SW Sec. 33, T8S, R16E

2103' FWL, 330' FSL Duchesne County, Utah 43-013-31214

FIELD: Monument Butte

ELEVATION: G.L. 5715' K.B. 5730'

SPUD DATE: 8/15/88

T.D. REACHED: 8/29/88

TOTAL DEPTH: 6408' Welex, 6411' Driller

FM. AT T.D.: Green River

HOLE SIZE: 12-1/4" Surface to 310'

BIT RECORD: 7-7/8" 310' to T.D.

CASING: 9-5/8" 47#/53.5# Surf. Csg. @ 310' w/165 sx cem.

5-1/2" 17# Prod. Csg. @ 6410' w/625 sx cem.

DRILLING CONTRACTOR: Olsen Drilling Co., Rig #5

TOOLPUSHER: Les Ecklund

DRILLING FLUID: Company: Mustang Drilling Fluids

Engineer: Craig Hart Type: KCL Water

MUDLOGGING: Melton Enterprises, Inc.

Art Melton and David Merkley

DST'S: None.

CORES: None.

10' samples with 5' samples in main objective SAMPLE PROGRAM: 3500' to T.D.

zones.

OPEN HOLE LOGS: Welex

6406-3081 Dual Induction Guard Log 6406-308'

Compensated Density Dual Spaced Neutron Log

GEOLOGICAL SUPERVISION: John R. Wingert, Consultant

ENGINEER: Mike McMican, NGC

WELL STATUS: Ran  $5\frac{1}{2}$ " production casing for completion in multiple Lower Green River formation sands.

# LOG TOPS

Uinta Green River	Surface 1757
"A"	4267
"B"	4509
"D.C."	4906 (+824)
"D"	5160
"E"	5280
"E2"	5449
"F"	5812
Basal Ls	6232
T.D. Logger	6408
T.D. Drlr.	6411

Oil and Gas Zones: Gross Interval 4934-6310'

# ZONES RECOMMENDED FOR COMPLETION

				Mud Gas
<u>Interval</u>	Zone	Ft. Pay	% Porosity	Max. Units
4478-82	"A"	41	14	120
4487-92	"A"	4 <b>†</b>	15	170
4677-84	"B"	6 <b>'</b>	14-16	290
4936-64	"D.C.(2)"	28 <b>'</b>	18-22	340
4992-5004	"D.C.(4)"	12'	16-18	300
5382-88	"E(d)"	6 ¹	12-14	90
5388-94	"E(d)"	6 ¹	14-20	450
5823-26	"F(1)"	2 1	13	280
5827-31	"F(1)"	31	17	360
5894-5900	"F(3)"	4 ¹	13	150
5902-14	"F(3)"	12'	13-15	240
6000-06	Lwr "F"	6 <b>'</b>	12-21	140
6144-54	Lwr "F"	10'	14-15	230
6304-10	Basal Ls	6 <b>'</b>	12-16	540

#### SAMPLE DESCRIPTIONS

#### Lagged Samples

- 3500-40 Sh, brn, limey, v. pr smp w/pieces metal.
- 3540-80 Sh, brn, v. limey, hd, gds to & intbd w/Ls, tan, hd, tite, dull yell min fluor. Cuttings v. fine.
- 3580-3680 Ls, tan to brn, pt wh chalky w/yell min fluor. Grades to sh, brn limey, hd, yell-gold min fluor. Minor strgs Ss, lt gy, calc, vfn gn, tite NSOFC. Incr background gas w/total gas peaks to 190 units. No reservoir rocks or vis stn. Smp vfn gn, poor.
- 3680-3750 Ls, tn to med brn, gds to sh, brn, v. limey hd tite, dull yell-gold min fluor. Background gas 20-30 units w/peaks to 104 units. Vfn chips in smp.
- 3750-3920 Sh, brn, limey hd, w/abd dull gold min fluor, minor intbd gy-grn sh, calc. Tr Ss, lt gy, calc, vfn-fn gn, argill, pr sort, tite, NSOFC. Minor mud gas from shale. Background total gas 10 units.
- 3920-4050 Sh, brn, limey w/dull gold fluor, minor gy-grn sh, soft, calc, tr Ss, gy, vfn gn, tite, NSOFC. Shale gas background 20-30 units w/peaks 70-160 units.
- 4050-4150 Sh, brn, limey w/dull gold min fluor, intbds & strgs. Sh, gy-grn, calc, pt slty. Background gas decr to 10 units.
- Sh, brn, limey as w/gold min fluor. Sli incr Ss strgs, gy, calc, vfn-fn gn, pr sort, s-ang to s-rnd, tite, NSOFC. Background total gas 10 units.
- Sh, brn, limey as w/dull gold min fluor, minor strgs, gy-grn sh, calc, pt slty. Tr Ss, gy, calc, vfn-fn gn, pr sort, s-ang, low por, tite NSOFC.
- 4274-80 Ss, lt gy, calc, vfn-fn gn, low por, tr spotty v. lt stn, dull yell fluor, fr-gd streaming cut. Total gas 4271-73 & 4278-80, Max 250 units.
- Sh, brn, limey w/dull yell-gold fluor, aa. Tr Ss, gy, vfn-fn gn, pr sort, low por to tite, tr spotty lt brn oil stn, yell fluor, v. wk cut.
- Ss, gy, calc, vfn-fn gn, pr sort, s-ang, low por-tite, tr lt brn stn w/dull yell fluor & v. wk cut. No gas incr.
- 4338-42 Sh, brn limey aa. Trip for new bit @ 4342. Circ smp off btm 30 min.
- Sh, brn, limey, hd, dull gold min fluor. Minor gy-grn sh strgs. Ls, lt gy-tn, hard. Ss, tr lt gy, calc, vfn-fn gn, tr lt brn spotty stn, wk fluor & v. wk cut. Total gas 10 units.

- Ss, gy to grn-gy, calc, vfn gn, gds to sdy sltstn, tite, no vis stn. Total gas 6/36/8.
- Sh, brn, limey, hd, abd gold min fluor. Minor strgs sh, gy-grn, calc, slty.
- Ss, gy, calc, vfn-fn gn, pr sort, low por to tite, no vis stn, dull yell fluor, wk cut. Total gas 6/88/8. Tr free oil on smp.
- 4480-88 Sh, brn, limey w/gold min fluor aa.
- Ss, lt gy, calc, vfn gn, low por, tr lt brn stn in sd, tr dull yell fluor, wk to no cut. Abd brn limey sh & dk gy to blk sh. Abd oil in smp may be from sh or frac. Total gas 10/120/50.
- 4492-94 Sh, brn limey aa.
- 4494-98 Ss, aa, spotty brn oil stn, fr-gd yell fluor & cut. Total gas 50/170/10. Free oil in smp.
- 4498-4580 Sh, dk brn aa w/gold min fluor w/sh dk gy, pt soft, pt slty, calc.
- 4580-4594 Sh, brn to dk gy aa w/gold min fluor.
- Ss, gy, calc, vfn-fn gn, pr sort, low-fr por, tr spotty lt brn stn, dull yell fluor, wk-fr cut. Total gas 10/200/10.
- 4597-4620 Sh, brn, limey w/gold fluor aa. Tr Ss w/wk fluor & cut aa. Background gas 10 units.
- 4620-32 Sh, blk, calc, fissile, soft. Total gas 10/54/10 from 4622-25.
- 4632-35 Sh, brn hd aa w/gold min fluor.
- 4635-41 Sh, blk soft, fissile. Total gas 10/110/30.
- Sh, brn, limey, hd w/gold min fluor. Abd intbd sh, grn-gy, calc, pt slty.
- Ss, gy, calc, vfn-fn gn, s-ang to s-rnd, low por to tite, tr lt spotty stn, dull yell fluor, wk to no cut. Smp pred sh, brn, limey aa. Total gas 15/240/20.
- Sh, brn, hd limey w/gold min fluor & sh, grn-gy, calc, pt slty aa. Minor Ss, no vis stn, tr dull fluor & wk to dom, no cut.
- Ss, gy to grn-gy, calc, vfn-fn w/occ med gn, biotite & dk min, pr sort, fr to low por, tr dull yell-gold fluor, no vis stn, wk to no cut. Total gas 6/290/10. Smp pred sh, brn, hd, limey w/gold min fluor.
- 4686-4740 Sh, brn, limey, w/gold min fluor aa. Minor grn-gy sh, calc, pt slty, tr Ss.

- Sh, brn, limey w/gold min fluor. Ss, 2-3%, gy, calc, vfn-fn gn, s-ang, pr sort, tr lt brn spotty oil stn w/dull yell fluor, v. wk milky cut.
- 4760-4913 Sh, brn, limey w/gold min fluor, w/minor gy-grn slty sh, calc. Tr Ss, grn-gy, calc, vfn-fn gn, low por to tite, NSOFC. Background gas 4 to 6 units.
- 4913-17 Ss, tr in smp, gy, calc, vfn gn, tite, no vis stn. Total gas 30/110/16.
- 4917-34 Sh, brn, limey hd, gold min fluor.
- 4934-40 Ss, slty, vfn gn, dom sh in smp aa.
- 4940-66 Ss, gy, calc vfn-fn gn, fri, gd por, fr sort, s-ang to s-rnd, spotty to even stn, bri yell fluor, gd str cut, drilled 26' in 24 min., Smp dom brn sh aa. Total gas 4/350/18.
- 4966-96 Sh, brn, limey hd w/gold min fluor.
- 4996-5005 Ss, gy, calc, vfn gn, s-ang to s-rnd, fr sort, fri, fr-gd por, spotty to even stn, yell fluor & str cut. Smp dom sh, brn, limey w/gold min fluor. Total gas 8/350/15.
- 5005-5048 Sh, brn, limey, mod hd w/abd grn-gy sh, calc, pt slty, soft. Thin intbds, Ss, gy to grn-gy, calc, vfn gn slty NSOFC. Trip to replace cracked drill pipe. Pump pressure dropped 150 psi. Replaced two joints. 240 units trip gas.
- 5048-90 Sh, brn, limey, hd, gold min fluor, intbds, sh, grn-gy, calc, pt slty, ±1% Ls, tank, argill, pt soft, yell min fluor. Minor strgs, Ss, gy to grn-gy, calc, vfn gn, s-ang, tite, tr lt brn stn w/yell fluor & cut, dom, NSOFC.
- 5090-5120 Sh, brn, limey aa w/incr sh, grn-gy, calc, slty  $\pm 40\%$  Ss, lt gy aa, NSOFC.
- 5120-27 Ss, lt gy, calc, vfn-fn gn, s-ang to s-rnd, no vis stn, abd free dk brn oil over shaker, total gas 10/310/50. Smp pred brn, limey sh, minor Ss in smp. Drill time two min/ft.
- 5127-47 Sh, brn limey as  $w/\pm 40\%$  sh, grn-gy as. Strg Ss as. 40/110/20.
- 5147-57 Ss, slty (?) pr smp dom brn sh, no vis stn. Total gas 60 units, Minor soft blk fissile shale.
- Ss, v. pr smp, dom brn sh, Ss, grn-gy, calc, vfn-fn gn slty, clayey, tite, no vis stn or fluor, no cut. Total gas 50/240/50.
- 5160-80 Sh, brn, limey as w/intbds grn-gy sh, calc, slty as. Strgs Ss, gy, calc, vfn gn, low por, pt lt brn oil stn, yell fluor, gd streaming cut. Total gas 50/200/50.

- Sh, grn-gy, calc, pt slty, w/abd brn limey sh. Ss, strgs, grn-gy to gy, calc, vfn gn, slty, low por to tite, occ lt brn stn, yell fluor, wk to gd str cut. Total gas 50/180/40.
- 5190-5290 Sh, grn-gy, calc, pt slty, ±50% sh, brn, limey w/dull gold min fluor. Ss, strgs, gy to grn-gy, calc, slty, vfn gn, tite, NSOFC. Mud gas background 15-40 units.
- 5290-5310 Sh, blk, carb, fissile, calc, soft. Brn & grn-gy sh aa in smp. Total gas 50 units 5290-5300, 50-170 units @ 5300-10.
- 5310-30 Sh, pred brn limey w/grn-gy sh aa. Total gas 10-20 units background.
- 5330-60 Sh, pred grn-gy, calc, pt slty w/decr brn limey sh, minor blk fissile sh. Minor strgs Ss, grn-gy, calc, argill, vfn-fn gn, pr sort, tite, NSOFC.
- 5360-92 Sh, pred brn, limey w/gold min fluor.
- 5392-5397 Ss, gy, calc, vfn-fn gn, s-ang to s-rnd, low-fr por, brn oil stn, oil E(d) in smp, some oil on frac. Drilled 1 to 2 min/ft. 20/350/25.
- 5397-30 Sh, brn, limey, gold min fluor, minor grn slty sh, calc, soft.
- Ss, gy, calc, vfn gn, s-ang, even to spotty brn oil stn, low por to dom tite, gd fluor & cut. Drld 2 min/ft 36-42. 30-40 units during drlg brk and 90 units max below @ 5442-46.
- 5442-5499 Sh, brn, limey aa, w/gold min fluor. Intbd sh, grn-gy, calc, pt slty, minor Ss w/brn stn, yell fluor & cut aa. Mud gas recorder zeroed no valid readings.
- 5499-5521 Sh, blk, carb, fissile soft, drilled  $1\frac{1}{2}$  to 2 min per ft. No mud gas readings through this interval.
- 5521-45 Sh, intbd, brn limey w/gold min fluor, grn-gy, calc soft and blk carbonaceous aa.
- Ss, gy, calc, vfn-fn gn, fr sort, s-ang to s-rnd, fri fr-gd por, even brn oil stn, yell fluor, gd streaming cut. Smp pred sh aa incl, blk carb sh. Total gas 6/60/10.
- Sh, brn, limey gold min fluor to pred sh, dk gy to blk, calc, pt v. carb fissile, soft. Strg, ls, tan to wh, argill.
- 5581-5605 Sh, blk carbonaceous, v. calc, fissile, v. soft. Drilled @ about 1 min/ft. throughout. Total gas 20/70/30 5582-88.
- Sh, dk gy, calc, fissile, soft to mod hd, pt may be cvgs. Background total gas 10 units.
- Sh, brn, limey w/gold min fluor, intbds, dk gy sh aa, fissile to slty, minor grn-gy sh and minor strgs Ss, grn-gy to gy, calc, argill, vfn gn, pr sort low por, tite, NSOFC. Background total gas 8-10 units.

- Sh, blk, carbonaceous, calc, fissile, soft. Occ v. thin strgs, Ss, gy, calc, vfn-fn gn, fri, low-fr por, even oil stn, gd yell fluor & cut. Drilled @ 1 min/ft. Total gas 10/50-70/20.
- 5699-5706 Sh, brn, limey, gold min fluor & sh, dk gy to blk, calc.
- 5706-09 Sh, blk, calc, v. carbonaceous, soft, fissile, tr pyrite. Total gas 20/70/20.
- 5709-17 Sh, brn, limey, gold min fluor w/grn-gy sh.
- 5717-25 Sh, blk, calc, soft, fissile, 20 units total gas.
- 5725-48 Sh, brn, limey aa w/grn-gy sh. V. thin Ss strgs, gy, vfn gn, tite, pt 1t brn stn, yell fluor & fr cut background gas 10-15 units.
- 5748-57 Sh, blk, calc, slty, soft fissile. Total gas 20/70/20.
- 5757-76 Sh, brn, limey w/gold min fluor gds to dk gy calc sh, hd, background gas 20 units.
- 5776-5803 Sh, blk, calc, carbonaceous, soft, fissile, tr pyrite. Total gas 20/100/20 w/peak to 160 units @ 5800-03.
- 5803-30 Sh, brn, limey, hd & sh, dk gy-blk, calc. Minor Ls, tn-lt brn, w/tr free oil. Ss, tr, vfn gn, tite w/brn oilstn, yell fluor & fr-gd cut. Total gas 5829-30 10/280/20.
- 5830-36 Ss, gy, calc, fn gn, s-ang to s-rnd, fri, lse gns in smp, gd por, free oil in smp, blk oil stn in sd, yell fluor, gd str cut. Total gas 20/360/12.
- 5836-61 Sh, brn, limey w/gold min fluor intbd w/sh, blk to dk gy, calc, hd. Background gas 12 units.
- Ss, gy to grn-gy, calc, vfn-fn gn, s-ang to s-rnd, pt well cem, pt fri, low por, free oil in smp, pt brn stn in sd, fr-gd cut, drilled  $1-1\frac{1}{2}$  min/ft. Total gas 10/125/14.
- 5863-75 Sh, brn limey, w/gold min fluor, minor grn-gy sh, calc, slty.
- 5875-82 Ss, 1t gy, calc, vfn gn, slty, low por to dom tite, tr brn stn, wk cut, drilled 2 min/ft. Total gas 10/96/10.
- 5882-92 Sh, brn, limey, gold min fluor w/minor grn-gy slty sh, calc.
- 5892-94 Ss, gy, calc, vfn gn, pr sort low por. 10/30/12
- 5894-5905 Sh, brn, limey, gold min fluor w/sh dk gy & grn-gy Ss, 5900-05 Ss, gy, calc, vfn gn, low-fr por, lt brn oil stn, yell fluor, gd cut 10/148/32 drilled 2 min/ft.
- 5905-17 Ss, gy, calc, fn gn, fr-gd, sort, s-rnd, v. friable, abd lse gns in smp, 1t brn stn, excellent bri fluor throughout smp, v. gd cut. Total gas 20/220/10.

- Sh, brn, limey w/gold min fluor w/minor grn-gy sh, minor blk sh, calc, fissile soft (cvgs?) Tr Ss, gy, calc, vfn gn, s-ang, pr sort, low por to tite, thin strgs, pt w/dk brn oil stn, yell fluor, fr-gd cut. Background 10 units total gas.
- 5950-57 Ss, grn-gy, calc, vfn-fn gn, argill, pr sort, low por to tite, dom no stn, tr stn, dull yell fluor, pr to no cut. 10/36/16.
- 5957-6002 Sh, brn, limey, dull gold min fluor, minor grn-gy sh, calc, soft, minor blk sh, calc, soft. Strgs Ss, gy, calc, dom vfn gn, pr sort s-ang, low por to tite, tr dk brn oil stn, dull yell fluor, milky to fri streaming cut. Background gas 10 units.
- Ss, gy to grn-gy, calc, argill, vfn-fn gn, s-ang, low por to tite, tr stn in sd w/dull yell fluor, wk cut, blk oil in smp. Drld @  $1\frac{1}{2}$  min/ft. Total gas 20/134/10.
- 6009-11 Sh, brn limey.
- 6011-13 Ss, gy, as drld  $l_2^{1}$  min/ft. Total gas 54/126/30.
- 6013-94 Sh, brn, limey w/gold min fluor, minor dk gy & blk, pt soft carbonaceous. Minor strgs Ss, gy, calc, vfn-fn gn, well cem, low por to tite, tr dk blk oil stn, dull yell fluor, wk to no cut. Background gas 10 units.
- Ss, gy to grn-gy, calc, vfn-fn gn, pr sort, low por, tr brn oil stn, dull yell fluor, wk cut. Drld @ 1½ min/ft. Total gas 16/56/16.
- 6098-6148 Sh. brn limey w/gold min fluor.
- Ss, gy, calc, vfn-fn gn, fr sort, s-ang to s-rnd, fri fr-gd por, spotty to even brn oil stn, abd free oil over shaker, gd bri yell-grn fluor, gd cut in stained cuttings. Total gas 10/230/20.
- 6158-82 Sh, brn to dk gy, limey, gold min fluor, minor blk sh, aa.
- 6182-84 Ss, gy, calc, vfn gn, low por, spotty brn stn, cut, yell fluor.
- 6184-94 Sh, brn, limey aa.
- 6194-6205 Ss, gy, calc, vfn-fn gn, s-ang, low por, spotty to even stn, yell fluor, gd cut. Total gas in spikes erratic porosity or frac indic.

  Max 120 units 10 background.
- 6205-6239 Sh, brn to dk gy, limey, gold min fluor, intbds sh, grn-gy calc, tr Ss, gy, vfn gn, occ lt brn stn, tite.
- 6239-46 Ls, brn, tn, argill to dolomitic, resembles limey shale above but drilled @ 1 to  $1\frac{1}{2}$  min/ft. Top Basal Ls 6239'.
- 6246-51 Ls, brn shy w/sh blk, calc, carb, fissile. 50 100 units total gas, fractured (?).
- 6251-53 Coal, blk, brittle, concoidal frac, drld less than 1 min/ft. Back-ground gas 50-100 units.

- Sh, blk carbonaceous, calc, coal incl, abd shy Ls & brn limey sh in smp.
- 6266-6310 Ls, brn argill blocky, gds to sh, limey, brn, tr Ss, gy, calc, vfn gn tr brn stn w/yell fluor & cut. Abd, sh, blk, calc, carb, fissile to brittle. Background gas w/peaks 150 to 250 units. Abd blk oil over shaker, prob frac, no vis por.
- D1rg brks 6310-11, 6314-15, 6316-17, 6321-22, 6323-24
  Inbd Ls, brn argill, part pelletal gds to sh, brn limey w/gold min fluor, abd free oil prob from frac, no vis por. Total gas max to 540 units in peaks from alternating drilling brks. Inbds sh, blk, calc, carbonaceous, fissile to brittle.
- Ls, brn shy gds to limey sh, blocky, part pelletal, prob fractured, no vis por, tr Ss in smp, tite. Tr stn 100/250/75 total gas w/free oil in smp. Blk carb sh in smp.
- 6357-58 Ls, brn fractured (?), drilled 1 min/ft. 60/150/60.
- 6358-70 Ls, brn, shy gds to limey sh. Background gas 60 units w/intbds sh, blk calc, carbonaceous, fissile, brittle w/coal inclusions, blk, vitreous, concoidal frac.
- 6370-6400 Ls, brn gds to limey sh w/intbd grn-gy sh & blk fissile sh, incl, coal aa. 60 units background gas. Blk oil over shaker.
- 6400-11 Ls, gd to marlstone, brn w/grn-gy sh and blk carb sh intbds. Drilled at 5 min/ft.

T.D. 6411

John R. Wingert

NGC

NGC

NGC

NGC

NGC

85 South 200 East Vernal, Utah 84078 (801) 789-4573

\GC

January 17, 1989



NGC

NGC

DIVISION OF OIL, GAS & MINING

Bureau of Land Management Vernal District Office 170 South 500 East Vernal, UT 84078

Division of Oil, Cas & Mining 355 West North Temple 3 Triad Center, Suite 350

Re: NGC #24-33-B Federal SE SW Section 33, T8S, R16E Duchesne County, Utah

Salt Lake City, UT 84180-1203

Ralph E. Davis Associates 3555 Timmons Lane, Suite 1517 Houston, TX 77027 Attention: James A. Simmons

#### Gentlemen:

Attached is a final copy of the "Geological Wellsite Report" for the subject well.

If you have any questions, please contact the Vernal office.

Sincerely,

Karla Hanberg Office Supervisor

Attachment

cc: Vernal Well File

Paul Schnurr/Well File

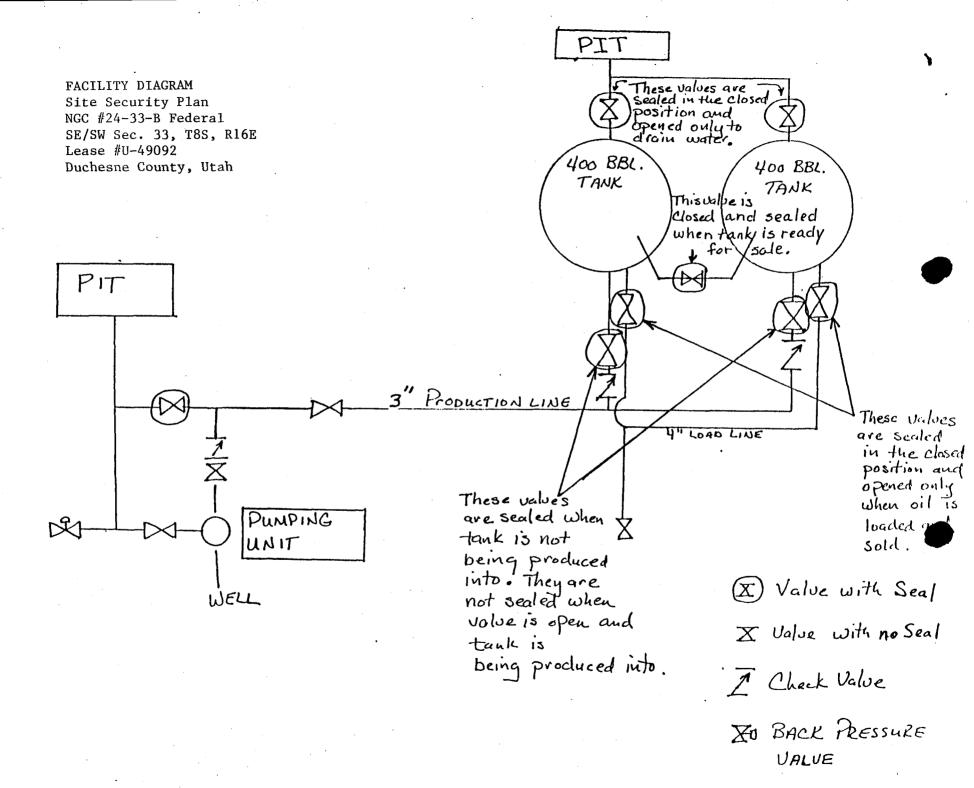
DEPARTM OF THE INTERIOR  SURFAU OF LAND MANAGEMENT  SUNDRY NOTICES AND REPORTS ON WELLS  (Denotify 9-331)  OTHER OF THE INTERIOR  SUNDRY NOTICES AND REPORTS ON WELLS  (Denotify of the foregoing to girl of the deeper of plug back to a different reservoir.  OUL OF SAME OTHER OF PROJECTION OF HIS PROJECT OF PUBL OF THE PROJECT OF PUBL OF THE P	Form 3160-5	UMSTED CTATES	SUBMIT IN TRIP		No. 1004-0135
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Michael L. McMican	•		LJorgensen; SFurtado;		
LIDER RORCE FOR PENEERI OF STATE UNICE USE)	18. I hereby certify that the foregoing is	s true and correct			89

\*See Instructions on Reverse Side

TITLE \_

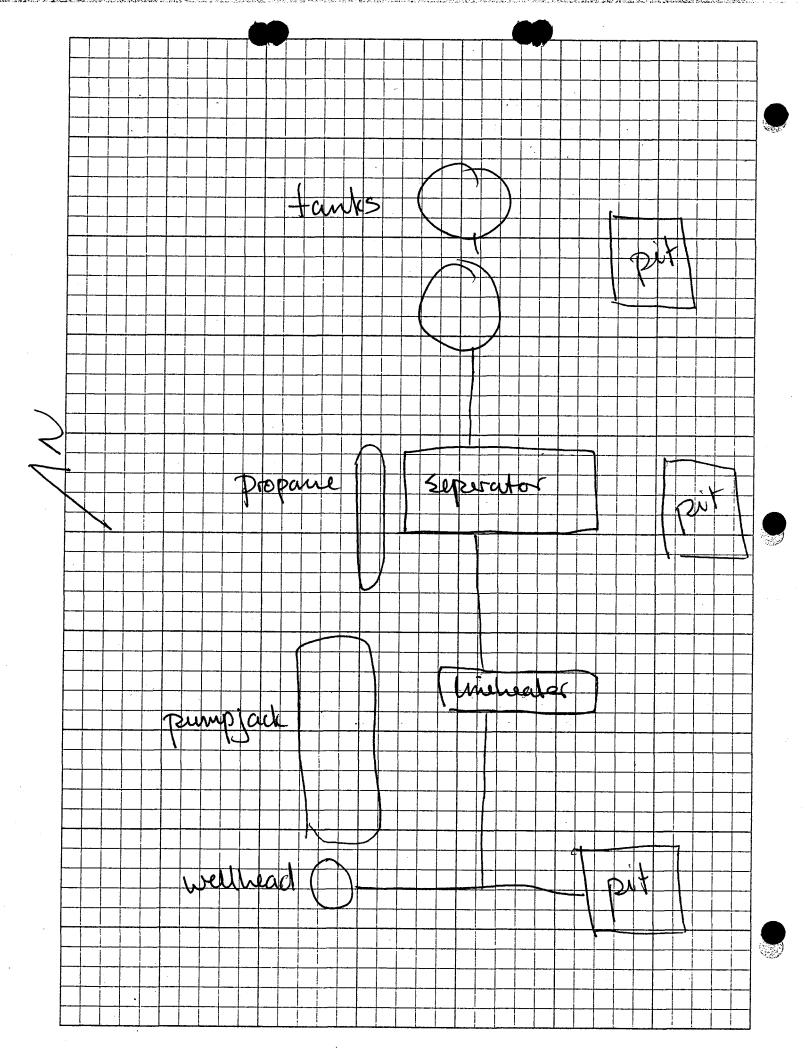
DATE \_

APPROVED BY \_\_\_\_\_\_\_ CONDITIONS OF APPROVAL, IF ANY:



# STATE OF UTAH SION OF OIL, GAS AND MINING OIL AND GAS INSPECTION RECORD

OPERATOR	N.G.C.	LEASE	Federal
WELL NO.	# 24-33-B	API 4	3-013-31214
SEC. 33 T. 8	S R. 16E CONTRACTOR		
COUNTY Duch	esne FIELD	Somment Bu	He
DRILLING/COMPLET:	ION/WORKOVER: WELL SIGN	HOUSEKEEPIN	NC DOCC
SAFETY OPERATION	POLL. CONTROL OTHER		
SHUT-IN / TAWELL SIGN		EQUIPMENT*	SAFETY
ABANDONED: MARKER	HOUSEKEEPING	REHAB.	OTHER
PRODUCTION:  WELL SIGN  METERING  SECURITY		EQUIPMENT* PITS OTHER	FACILITIES*  DISPOSAL
S DISPOSITION: VENTED/FO	ARED SOLD	LEASE USE	
N - NC	ES OR SATISFACTORY D OR UNSATISFACTORY NOT APPLICABLE		
*FACILITIES INSPE	ECTED: <u>location</u> w r, seperator, tank	ellhead, pumpj s.	iack, Pits,
REMARKS: Ok			
ACTION:		•	
INSPECTOR: G	ARY GARNER		DATE 3/1/89







355, West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut 84180-1203. ● (801-538-5340)

	3		2
Page		of	



### MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address	S:					
•NATURAL GAS CORP OF CA 85 SOUTH 200 EAST VERNAL UT 84078 ATTN: PROD. ACCOUNTING				Utah Account No. NO700  Report Period (Month/Year) 5 / 89  Amended Report		
Well Name	Producing	1 -	Production Volum	16		
API Number Entity Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)	
NGC 23-23 FEDERAL	CDDV					
4304731169 06160 09S 17E 23 FEDERAL 32-29	GRRV					
4304731175 06170 09S 18E 29	GRRV					
NGC 24-9H FEDERAL	GILLY	<del> </del>				
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FEDERAL 13-9H						
4301330656 06185 09S 17E 9	GRRV					
PTS 33-36 STATE						
4301330486 06190 115 14E 36	WSTC					
FEDERAL 31-20						
1304731433 06196 08S 22E 20	GRRV					
JERAL 12-9-H						
4301330983 09830 09S 17E 9	GRRV	<u> </u>				
FEDERAL NGC #22-9-H	6001					
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FEDERAL 24-33-B						
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Comments (attach separate sheet if nece	ssary)				<del> </del>	
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have reviewed this report and certify the	information	to ho	accurate and comp	lete Date		
have reviewed this report and centry the	anomadon	ro ne	accurate and comp	icic. Date		
: 선생 (Sung 19.5)						
uthorized signature		·		Telephone		
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NGC Energy Company 2001 Bryan Tower Suite 953 Dallas, Texas 75201 (214) 742-2396

PECERVE

JUN 21 1989

CILIFORSIU MINING

June 12, 1989

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Dear Operator/Vendor:

NGC

NGC

NGC Energy Company has changed its' name to PG&E Resources Company and has relocated its' corporate headquarters from Concord, California to Dallas, Texas. All invoices and corresponsence currently mailed to Concord, California should now be addressed to:

MGC

PG&E RESOURCES COMPANY 2001 Bryan Tower, Suite 953 Dallas, TX 75201

PG&E Resources Company's Rocky Mountain Regional office will continue to operate in Vernal, Utah. Please mail all invoices and correspondence pertaining to the Rocky Mountain region to:

PG&E RESOURCES COMPANY 85 South 200 East Vernal, UT 84078

All remittances should be mailed to:

PG&E RESOURCES COMPANY P. O. Box 840274 Dallas, Texas 75284-0274

PG&E Resources Company federal tax identifying number is 94-2882054.

Should you need any additional information, please contact Patti Sanders, Accounts Payable Supervisor.

Sincerely,

Keith H. Perkins

Vice President Controller

KHP/chs

68.06.0

of CA are one in the lame company. Jalked w/ Mr. Pukins he indicated both companies thould uplied the cha. NGC CO. will send a cha of oper from natural las cont to NGC.

Form 3160-5 (December 1989)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

. Lease Designation and Serial No.

2012110 01 1	EAND MANAGEMENT	5. Lease Designation and Serial No.
SUNDRY NOTICES	AND REPORTS ON WELLS	U-49092
	ill or to deepen or reentry to a different reservo	6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR	R PERMIT—" for such proposals	"-
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well		
GT Oil Gas		0.17.19.19
2. Name of Operator		8. Well Name and No.
PG&E Resources Company		24-33-B 9. API Well No.
3. Address and Telephone No.		43-013-31214
85 South 200 East, Vernal, UT	84078 801-789-4573	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De		Monument Butte
2103' FWL, 330' FSL SE/SW		11. County or Parish. State
Section 33, T8S, R16E		
		Duchesne, Utah
12. CHECK APPROPRIATE BOX(s	s) TO INDICATE NATURE OF NOTICE, REP	OPT OF OTHER DATA
	7 TO INDICATE NATOTIE OF NOTICE, REP	ORI, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIC	DN
X Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	☐ Altering Casing	Conversion to Injection
	Other NTL-2B	ts of multiple completion on Well Completion or
	Recompletion Repo	rt and Log form.)
<ol> <li>Describe Proposed or Completed Operations (Clearly state all give subsurface locations and measured and true vertice</li> </ol>	pertinent details, and give pertinent dates, including estimated date of stand depths for all markers and zones pertinent to this work.	rting any proposed work. If well is directionally drilled
	•	
	ose of produced water into an above-	•
	ss with a capacity of about 100 bbls	
well.	ck and disposed of at the Rooney Ope	erating disposal
werr.		
Accepted by	/ Can State	1、1000年1月1日 - 1000年1日 - 1
of Utah Divi		
Oil, Gas and	l l'ining	SEP 2 7 1993
Date: 2-2		
		事 <b>"</b> 我还是不好的"。 11.35世
By:		
		역 4분 현실 10년 시간 시간 현실 10년 10년 12년 12년 12년 12년 12년 12년 12년 12년 12년 12
	and the second s	producting against progress of the progression of the pro-
•		· Community (4) · Community (
Copies: Div. OG&M SGoodrich;	Central Files; JLaFevers	
14. I hereby certify that the foregoing is true and correct		
Signed Handy D. Miller	Title Production Foreman	Date 9/23/93
(This space for Federal of State office use)	V L CHICH	Date
Federal Approval of this		
Approved by	Title	Date
		•

(12/93)

STATE OF UTAH

## DIVISION OF OIL, GAS AND MINING 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 3 of 5

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:			UTAH	I ACCOUNT NUMBE	R:N0595	
PRODUCTION DEPT PG&E RESOURCES COMPANY 6688 N CENTRAL EXP #100 DALLAS TX 75206-3922	0			RT PERIOD (MONTH NDED REPORT <b> (</b> ]	Highlight Changes	····
				· · · · · · · · · · · · · · · · · · ·	Desiration Malusses	
Well Name	Producing	Well	Days	OIL(BBL)	Production Volumes GAS(MCF)	WATER(BBL)
API Number Entity Location	Zone	Status	Oper	OIL(BBL)		
/FEDERAL 41-5-G'   4301331205   10859   098   16E   5	GRRV			430096	( well & draw GARV	Unit/
/FEDERAL 23-9-H _4301331206	GRRV		į.	450750		
/FEDERAL 24-33-B #4301331214 10913 085 16E 33	GRRV		L	449092	( wells bean bern &	nit )
/FEDERAL 31-4-G _4301331228	GRRV		L	U30096	( Wells draw beev	unity
/FEDERAL 14-34-B' 4301331225 10980 085 16E 34	GRRV		ν	1147171	( Wells draw GREV	Unit )
/FEDERAL 14-33-B 21331229 10988 085 16E 33	GRRV		L	i49092	( Wells draw GREY 1	(nit)
<b>₹</b> rcDERA <b>L:43:-33:</b> B' 4301331240 11007 085 16E 33	GRRV		ν	u u	(Wells draw GREV V	(nit)
√FEDERAL 23-34-B 4301331241 11041 085 16E 34	GRRV	1:-	L	447171	( Wells draw 6xx	Unit)
グEDERAL 11-4-G 4301331250 11046 095 16E 4	GRRV		V	U30096	( wells draw GRAV	
√FEDERAL 23-33-B 4301331251 11047 085 16E 33	GRRV		ν	449092	( Wells Braw GERN	Unit)
√FEDERAL 31-5-G 4301331252 11054 098 16E 5	GRRV		L	430096	(wells draw EREN	Unit)
#EDERAL 34-33-B 4301331269 11079 085 16E 33	GRRV		L	449092	( wells brow GERV	Unit)
FEDERAL 44-33-B 4301331270 11084 085 16E 33	GRRV		. レ	u	( Wells draw GREN .	unit)
			TOTALS			
OMMENTS:						
OMMENTS:						
	<u>-</u>					
						X.
hereby certify that this report is true and complete to	the best of m	y knowledge.		Į.	Date:	
lame and Signature:					Telephone Number:	

Bureau of Land Management Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

3100 U-01470A (UT-923)

NOV 2 3 1304

CERTIFIED MAIL---Return Receipt Requested

DECISION

DALEN Resources Oil & Gas Co. 6688 N. Central Expwy., #1000 Dallas, Texas 75206

Oil and Gas U-01470A et al

### Corporate Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of PG&E Resources Company to DALEN Resources Oil & Gas Co. on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this decision. If additional documentation for changes of operator are required by our field offices, you will be contacted by them.

A rider to the Nationwide Bond No. U1870111 (BIM Bond No. WY2554) has been filed in the Wyoming State Office, in order to change the name of the principal on the bond. It has been examined and found to be satisfactory by that office.

### /s/ ROBERT LOPEZ

Chief, Minerals Adjudication Section

Enclosure Exhibit

bc: Moab District Office w/encl.
Vernal District Office w/encl.
MMS-Data Management Division, Denv
UT-922 (Teresa Thompson) w/encl.

TO LISHA CALDOVA	From CHLIS MERKITT
Co. STATE OF UTAH	Co. BLM
Dept. OIL & GR.3	Phone # 539-4119
Fax# 359-3940	Fex# 539 - 4260

į

## <u>List of Leases Affected</u>

T1 014705			
U-01470A	U-6632	UTU-65615	IIIIII CACAA
U-01790	<b>U-</b> 6634	UTU-66004	UTU-68631
U-02896A	U-7206	UTU-66027	UTU-69024
U-03505	U-10291	UTU-66033	UTU-69166
U-03576	<b>U-</b> 10760	UTU-66184	UTU-69482
U-013429A	U-11385	UTU-66185	UTU-69744
U-013765	U-12942	UTU-66187	UTU-72104
U-013766	/U-13905	UTU-66193	UTU-73087
U-013767	U-14236	UTU-66484	UTU-73089
U-013769	U-15392	UTU-66743	UTU-73433
U-013769A	U-16172	UTU-67168	UTU-73512
U-013769B	U-16535	UTU-67841	U-47453 ROW
U-013769C	U-16539	UTU-67857	U-49204 ROW
U-013792	U-16544	UTU-67996	U-49205 ROW
U-013793	U-17036	UTU-67997	U-49223 ROW
U-013793A	U-17424	UTU-68108	U-49236 ROW
<b>U-</b> 013794	U-19267	UTU-68109	U-49243 ROW
U-013818A	U-30096	UTU-68316	U-50487 ROW
U-013820	U-39221	UTU~68328	U-50488 ROW
U-013821A	U-39713	UTU-68330	U-50497 ROW
U-017713	U-39714	UTU-68338	U-50806 ROW
U-035316	U-40026	UTU-68346	U-50809 ROW
U-037164	Ú-46825	UTU-68347	U-50825 ROW
U-0141644	<b>8U-47171</b> €	UTU-68348	U-50833 ROW
U-0143519	∄U-49092	UTU-68388	U-53910 ROW
U-0143520A	U-50750	UTU-68402	U-54803 ROW
U-0143521A	U-52765	UTU-68544	U-61946 ROW
U-0147541	U-55626	UTU-68548	U-63969 ROW
U-0147541A	U-58546	UTU-68619	UTU-69111 ROW
U-2838	U-61052	UTU-68624	U-034207A X Contirmed Bin
U-6610	U-61189	*UTU-68625	11-29-94.
U-6612	U-62657	UTU-68626	11-21-11-9
U-6615	WTU-65218	UTU-68627	- q&

				·	·
WELL NAME	LOCATION	SEC-TWNSHIP-RANGE	COUNTY	LEASE NUMBER	API NO.
Govt. Fowler #20-1	NW/4 NW/4	20-9S-17E	Duchesne	U-13905	43-013-30563
Federal #19-1	NW/4 NW/4	19-9S-17E	Duchesne	U-13905	43013-30587
Féderal #41-30-H	NE/4 NE/4	30-9S-17E	Duchesne	U-11385	43-013-30601
Federal #21-15-H	NE/4 NW/4	15-9S-17E	Duchesne	U-11385	43-013-30614
State #11-16 (PA'd 5/90)	NW/4 NW/4	16-9S-17E	Duchesne	ML-21844	43-013-30616
Federal #42-4	SE/4 NE/4	4-9S-16E	Duchesne	U-30096	43-013-30638
Federal #13-9-H	NW/4 SW/4	9-9S-17E	Duchesne	U-37810	43-013-30656
Federal #32-5-G	SW/4 NE/4	5-9S-16E	Duchesne	U-30096	43-013-30670
Federal #31-8-H	NW/4 NE/4	8-9S-17E	Duchesne	U-10760	43-013-30679
Federal #12-8-H	SW/4 NW/4	8-9S-17E	Duchesne	U-10760	43-013-30680
Federal #24-15-H	SE/4 SW/4	15-9S-17E	Duchesne	U-10760	43-013-30681
Federal #24-9-H	SE/4 SW/4	9-9S-17E	Duchesne	U-50750	43-013-30682
Federal #21-5-G	NE/4 NW/4	5-9S-16E	Duchesne	U-30096	43-013-30698
Federal #12-4-G	SW/4 NW/4	4-9S-16E	Duchesne	U-30096	43-013-30699
NGC #41-8-H	NE/4 NE/4	8-9\$-17E	Duchesne	U-10760	43-013-30741
Federal #42-8-H (PA'd 5/90)	SE/4 NE/4	8-9S-17E	Duchesne	U-10760	43-013-30678
NGC #11-9-H	NW/4 NW/4	9-9S-17E	Duchesne	U-50750	43-013-30887
Federal #12-9-H	SW/4 NW/4	9-9S-17E	Duchesne	U-50750	43-013-30983
Federal #22-9-H	SE/4 NW/4	9-9S-17E	Duchesne	U-50750	43-013-31049
Federal #41-5-G	NE/4 NE/4	5-9S-16E	Duchesne	U-30096	43-013-31205
Federal #23-9-H	NE/4 SW/4	9-9S-17E	Duchesne	U-50750	43-013-31206
Federal #23-5-G	NE/4 SW/4	5-9S-16E	Duchesne	U-30096	43-013-31207
Federal #24-33-B	SE/4 SW/4	33-8S-16E	Duchesne	U-49092	43-013-31214
Federal #14-34-B	SW/4 SW/4	34-8S-16E	Duchesne	U-47171	43-013-31225
Federal #31-4-G	NW/4 NE/4	4-9S-16E	Duchesne	U-30096	43-013-31228
Federal #14-33-B	SW/4 SW/4	33-8S-16E	Duchesne	U-49092	43-013-31229
Federal #43-33-B	NE/4 SE/4	33-8S-16E	Duchesne	U-49092	43-013-31240
Federal #23-34-B	NE/4 SW/4	34-8S-16E	Duchesne	U-47171	43-013-31241
Federal #11-4-G	NW/4 NW/4	4-9S-16E	Duchesne	U-30096	43-013-31250

#### DALEN Resources Oil & Gas Co.



October 5, 1994

OCT II

BOD WELLS

Lisha Romero State Oil & Gas Office 3 Triad Center Salt Lake City, Utah 84180-1203

Re:

Company Name Change

Dear Ms. Romero:

PG&E Resources Company changed its name to DALEN Resources Oil & Gas Co. We are requesting a blanket change for all of PG&E Resources Company's properties to:

DALEN Resources Oil & Gas Co. 6688 N. Central Expressway, Suite 1000 Dallas, Texas 75206-3922

This change is effective October 1, 1994 for all records and reports filed in all districts throughout the state of Utah. I have included a listing of our Utah properties.

Also enclosed is a copy of the Certificate of the Secretary of State of Delaware regarding the name change to DALEN Resources Oil & Gas Co.

If you have any questions regarding this matter, please contact me at (214) 706-3678.

Sincerely,

Jim Johnson

Regulatory Analyst

JJ/sw Enclosures

cc:

Bureau of Land Management

Vernal District Office 170 South 500 East Vernal, Utah 84078

# State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"PG&E RESOURCES OFFSHORE COMPANY", A DELAWARE CORPORATION,
WITH AND INTO "PG&E RESOURCES COMPANY" UNDER THE NAME OF
"DALEN RESOURCES OIL & GAS CO.", A CORPORATION ORGANIZED AND
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED
AND FILED IN THIS OFFICE THE NINETEENTH DAY OF SEPTEMBER, A.D.
1994, AT 1:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel, Secretary of State

**AUTHENTICATION:** 

7242629

DATE:

09-19-94

## CERTIFICATE OF OWNERSHIP AND MERGER

#### MERGING

PG&E Resources Offshore Company
a Delaware corporation

#### INTO

PG&E Resources Company a Delaware corporation

(Pursuant to Section 253 of the General Corporation Law of the State of Delaware)

PG&E Resources Company, a corporation duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware ("Resources"), does hereby certify:

FIRST: That Resources and PG&E Resources Offshore Company ("Offshore") are corporations duly organized and existing under and by virtue of the General Corporation Law of the State of Delaware.

SECOND: That Resources owns all of the outstanding shares of the capital stock of Offshore.

THIRD: That the board of directors of Resources adopted the following resolutions by unanimous written consent on September 16, 1994, and that such resolutions have not been rescinded and are in full force and effect on the date hereof:

"RESOLVED, that PG&E Resources Offshore Company, a Dolaware corporation ("Offshore"), which is a wholly-owned subsidiary of Resources, merge with and into Resources pursuant to Section 253 of the General Corporation Law of the State of Delaware (the "Merger"), effective as of 9:00 A.M., Wilmington, Delaware time, on October 1, 1994, and that Resources assume all of the obligations of Offshore at such time;

RESOLVED, that upon the effective time of the Merger the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co."; and

RESOLVED, that the President or any Vice President of Resources are hereby authorized and empowered to file with the Secretary of State of the State of Delaware a certificate of ownership and merger to effect the Merger and the name change of the surviving corporation, and the appropriate officers of Resources are hereby authorized to incur the necessary expenses therefor and to take, or cause to be taken, all such further action and to execute and deliver

or cause to be executed and delivered, in the name of and on behalf of Rosources, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of Resources (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer)."

FOURTH: This Certificate shall not be effective upon its filing date, but shall become effective at 9:00 A.M., Wilmington, Delaware time, on October 1, 1994 (the "Effective Date").

FIFTH: Upon the Effective Date, the name of the surviving corporation shall be changed to "DALEN Resources Oil & Gas Co.".

IT WITNESS WHEREOF, Resources has caused this Certificate to be signed by its duly authorized officer this 19th day of September 1994.

PG&E RESOURCES COMPANY

Name: Joseph T. Williams

Title: President

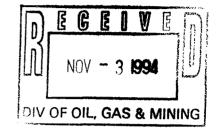
## DALEN Resources Oil & Gas Co.



October 31, 1994

Kent E. Johnson Vice President Exploration/Development

STATE OF UTAH NATURAL RESOURCES
OIL & GAS MINING
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: Gil Hunt



Re:

Name Change

PG&E Resources Company

#### Gentlemen:

Effective October 1, 1994, PG&E Resources Company (PG&ER) changed its name to **DALEN** Resources Oil & Gas Co. As a result of this action, all activities previously conducted in the name of PG&E Resources Company will subsequently be conducted by **DALEN** Resources Oil & Gas Co.. No changes in ownership, personnel, office address, telephone numbers, or business practices were caused by this name change.

Please revise your records by replacing PG&E Resources Company or PG&E Resources Offshore Company with **DALEN** Resources Oil & Gas Co.

Very truly yours,

John R. Wingert Exploration Manager

Northern Division

JRW:lkd

Division of Oil, Gas and Mining OPERATOR CHANGE HORKSHEET

Attach all documentation received by the division regarding this change. Initial each listed item when completed. Write N/A if item is not applicable.

1 LEC / GIL 2 LWF 7-PL 3 DFF 8-SJ 4 VLC 9-FILE 5-RJF

**XXX** Change of Operator (<del>well sold</del>)

☐ Designation of Operator

☐ Designation of Agent

XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTI	IVE DATE:	<b>10-1-94</b>	
TO (new operator) DALEN RESOURCES OIL & GAS CO-FROM (former conditions) 6688 N CENTRAL EXP STE 1000 DALLAS TX 75206-3922	(address)	PG&E RESOURCES COM 6688 N CENTRAL EXP DALLAS TX 75206-3	STE 10

phone ( 214 ) 750–3800 phone (214 ) 750–3800 account no. N3300 (11–29–94) account no. N 0595

Mell(S) (attach additional p	rage if needed):	VEST WILLOW (	•			•	
Name:**SEE ATTACHED**	API: 013-31214			_Twp_	Rng	_ Lease Type:_	
Name:							
Name:	API:	_ Entity:	Sec	_Twp_	Rng	_ Lease Type:_	
Name:	API:	_ Entity:	Sec	_Twp_	Rng	_ Lease Type:_	
Name:	API:	Entity:	Sec	_Twp_	Rng	_ Lease Type:	
Name:	API:	_ Entity:	Sec	_Twp	Rng	_ Lease Type:	
Name:	API:	_ Entity:	Sec	_Twp_	Rng	_ Lease Type:	

#### OPERATOR CHANGE DOCUMENTATION

- Let. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>former</u> operator (Attach to this form). (Lect. 10-3-94)
- Le 2. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>new</u> operator (Attach to this form). (full 10-3-94)
- Ill 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes) no) \_\_\_\_\_ If yes, show company file number: #FN001519. "Delen Resources Corp." eff. 6-15-94.
- (4. (For Indian and Federal Hells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Let 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (11-29-94)
- 6. Cardex file has been updated for each well listed above. 12-7-94
- The 7. Well file labels have been updated for each well listed above. 12-8: 54
  - (8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (11-29-44)
  - 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.	
ENTITY REVIEH	
(Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. We entity changes made? (yes/ho) (If entity assignments were changed, attach copies Form 6, Entity Action Form).	er Of
N/A 2. State Lands and the Tax Commission have been notified through normal procedures entity changes.	O1
BOND VERIFICATION (Fee wells only) Surely U1870145/80,000. "Rider to Delen" rec'd 10-3-94.  *Trust land/Ed "Rider" Arry. 10-5-94 # 112164274/80,000.  Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished proper bond.	,
2. A copy of this form has been placed in the new and former operators' bond files.	
Lec/3. The former operator has requested a release of liability from their bond (yes/no)	tei
LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY	
1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has be notified by letter dated	αнι
10 2. Copies of documents have been sent to State Lands for changes involving State leases.	
FILMING	
1. All attachments to this form have been microfilmed. Date: <u>December 15</u> 1995	<u> </u>
FILING	
1. <u>Copies</u> of all attachments to this form have been filed in each well file.	
2. The <u>original</u> of this form and the <u>original</u> attachments have been filed in the Opera Change file.	to
COMMENTS	
94/108 Bm/s.4. Not aprv. Yet!	
941125 " aprv.'d.	-,

WE71/34-35

#### **ENSERCH EXPLORATION**<sub>INC</sub>

4849 Greenville Ave., Suite 1200 Dallas. Texas 75206-4186 214/369-7893

January 11, 1996

Bureau of Land Management Utah State Office 324 South State Salt Lake City, UT 84111

Attention: Mr. Chris Merritt

RE:

Operator Name Change

Dear Mr. Merritt:

DALEN Resources Oil & Gas Co. has been merged into Enserch Exploration, Inc. effective January 1, 1996. Attached is a list of the properties that were operated by DALEN Resources and a copy of the Certificate of Merger from the Secretary of the State of Texas. Please change the operator name on these properties. Enserch Exploration, Inc. operates under Nationwide Bond No. 203826, BLM assigned No. MT-0680.

If you have any questions or need further information, please contact the undersigned at (214) 987-6363.

Very truly yours

Cindy R. Keister

Regulatory Compliance Specialist

CRK/ck

Attachments

cc: Vernal BLM Office w/attachments

	on of Oil, Gas and Mining TOR CHANGE HORKSHEET		(MERGER)	Routing:
Initial	all documentation received by the division each listed item when completed. Write N	N/A if item is not applic		2_DT\$57-F1LE 3_VLD 8_F1LE 4_RJR
	nge of Operator (well sold) ignation of Operator			5- LHC 14-
The or	perator of the well(s) listed below	w_has changed (EFFEC	CTIVE DATE: 1-1	<b>96</b> )
TO (ne	ew operator) ENSERCH EXPLORATION IN (address) 4849 GREENVILLE AVE ST DALLAS TX 75206 CINDY KEISTER phone (214)987-6353	NC FROM (former TE 1200	(address) <u>6688</u> <u>DALLA</u> <u>CINDY</u>	RESOURCES OIL & GAS N CENTRAL EXP #1000 AS TX 75206-3922 KEISTER (214)987-6353
	account no. <u>N4940 (1-</u>	-29-96)		nt no. <u>N3300</u>
Hell(s	<ul><li>(attach additional page if needed):</li></ul>			
Name: Name: Name: Name:	** SEE ATTACHED **  API: API: API: API: API: API: API: API	Entity: Entity: Entity: Entity: Entity: Entity:	SecTwpRn _ SecTwpRn _ SecTwpRn _ SecTwpRn _ SecTwpRn	g Lease Type:           g Lease Type:           g Lease Type:           g Lease Type:           g Lease Type:
Lec 1.	(Rule R615-8-10) Sundry or other operator (Attach to this form). (Rule R615-8-10) Sundry or other (Attach to this form). (Rule R615-8-10) Sundry or other (Attach to this form). (Lect 1-22-	Fee'd 1-22-967 legal documentation -96)	n has been receiv	ved from <u>new</u> operator
με3.	The Department of Commerce has be operating any wells in Utah. Is yes, show company file number: #	een contacted it the s company registered <u>+ 171513</u> . [Af. 1-4-1	e new operator at d_with the state 95)	(yes/no) If
Lec 4.	(For Indian and Federal Hells Of (attach Telephone Documentation comments section of this form.	ONLY) The BLM has b Form to this repo Management review	peen contacted rort). Make not of <b>Federal and</b>	egarding this change e of BLM status in I <b>ndian w</b> ell operator
Lic 5.	Changes should take place prior to Changes have been entered in the listed above. $(2-12-96)$	Oil and Gas Informa	ation System (War	ng/IBM) for each well
Lig 6.	Cardex file has been updated for e	each well listed abo	ove. (2-12-96)	
Lee 7.	Well file labels have been updated	d for each well list	ted above. (2-12-	961
<u>Le</u> 8.	Changes have been included on the for distribution to State Lands as	e monthly "Operator .nd the Tax Commissio	, Address, and A on. (2-12-96)	Account Changes" memo
Lico.	A folder has been set up for the placed there for reference during	Operator Change fi routing and process	le, and a copy o sing of the orig	of this page has been inal documents.

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.
ENTITY REVIEW
1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes no) (If entity assignments were changed, attach <u>copies</u> of Form 6, Entity Action Form).
N/H 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.
BOND VERIFICATION (Fee wells only) Trustlands/Bond & lease upolete in progress!
Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
NA 2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no)  Today's date 19 If yes, division response was made by letter dated 19
EASE INTEREST OHNER NOTIFICATION RESPONSIBILITY
1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated
2. Copies of documents have been sent to State Lands for changes involving <b>State leases</b> .
TLMING $24$ . All attachments to this form have been microfilmed. Date: $24$ .
ILING
1. Copies of all attachments to this form have been filed in each well file.
2. The <u>original</u> of this form and the <u>original</u> attachments have been filed in the Operator Change file.
OMMENTS
960212 Blm/SL aprv. eff. 12-31-95.

WE71/34-35

## UTAH WELLS ENSERCH EXPLORATION, INC.

1/11/96

UNIT	WELL		LSE NO.	API NO.	OTP	CEC	TIA/AL	DANIOE	Tool war	٦
			1	JAFTINO.	QTR	SEC.	TWN	HANGE	COUNTY	
*	Federal	11- 4G	U-30096	40.040.0405	4 5 10 4 5 10 4 7	<u> </u>				_
*	Federal	12- 4G	U-30096	43-0133125	<del></del>	4	98	16E	Duchesne	
*	Federal			43-013-3699		4	98	16E	Duchesne	
*	Federal	21- 4G	U-30096	43-013-31272	<del>                                     </del>	4	98	16E	Duchesne	コ いついん
*	<del></del>	31- 4G		43-013-31228		4	98	16E	Duchesne	
*	Federal	42- 4G		43-013-30638		4	98	16E	Duchesne	
*	Federal	21- 5G	U-30096	43-013-3069	<del></del>	5	98	16E	Duchesne	3069
*	Federal	22- 5G		43-013-31273	<del> </del>	5	9\$	16E	Duchesne	
*	Federal	23- 5G		43-013-31207	<del></del>	5	9\$	16E	Duchesne	
*	Federal	31- 5G	<del></del>	43-013-31252		5	98	16E	Duchesne	
7	Federal	32- 5G	U-30096	43-013-30670	<del> </del>	5	98	16E	Duchesne	$ \omega \omega$
*	Federal	41- 5G	U-30096	43-013-31205		5	98	16E	Duchesne	WILL
*	Federal	43- 5G		43-013-30858		5	98	16E	Duchesne	
*	Federal	13- 33B	<del></del>	43-013-31277	NW SW	33	8S	16E	Duchesne	
¥ <u>*</u>	Federal	14- 33B	U-49092	43-013-31229		33	88	16E	Duchesne	WIW
* #	Federal	23- 33B		43-013-31251		33	8S	16E	Duchesne	
	<b>Re</b> deral	24- 33B	U-49092	43-013-31214	SE SW	33	8\$	16E	Duchesne	
*	Federal	33- 33B	U-49092	43-013-31268	NW SE	33	88	16E	Duchesne	
*	Federal	34- 33B	U-49092	43-013-31269	SW SE	33	88	16E	Duchesne	WIW
*	Federal	43- 33B	U-49092	43-013-31240	NE SE	33	8S	16E	Duchesne	WIW
*	Federal	44- 33B	U-49092	43-013-31270	SE SE	33	88	16E	Duchesne	
*	Federal	13- 34B	U-47171	43-013-31271	NW SW	34	8\$	16E	Duchesne	
V *	Federal	14- 34B	U-47171	43-013-31225	SW SW	34	8S	16E	Duchesne	W(u)
*	Federal	23- 34B	U-47171	43-013-31241	NE SW	34	88	16E	Duchesne	
**	Federal	14- 4	U-07978 ~	43-013-30671	SW SW	4	98	17E	Duchesne	
**	Federal	34- 5	UTU-72108	43-013-30721	SW SE	5	9S	17E	Duchesne	
**	Federal	44- 5	UTU-72108	43-013-30913	SE SE	5	98	17E	Duchesne	
**	Federal	12- 8H	U-10760	43-013-30680	SW NW	8	98	17E	Duchesne	
**	Federal	21- 8H	U-10760 v	43-013-31460	NE NW	8	98		Duchesne	
**	Federal	22- 8H	U-10760 V	43-013-31457	SE NW	8	98		Duchesne	
**	Federal	31- 8H		43-013-30679		8	98		Duchesne	
**	Federal	32- 8H		43-013-30542		8	98		Duchesne	
**	Federal	41- 8H		43-013-30741		8	98		Duchesne	
**	Federal			43-013-30678		8	98		Duchesne	DRL
	Federal	24- 15H		43-013-30681		15	98		Duchesne	J, _
**	Federal	11- 9H	U-50750 V	43-013-30887	NW NW	9	98		Duchesne	
**	Federal	12- 9H		43-013-30983		9	98		Duchesne	
**	Federal			43-013-30656		9	98		Duchesne	
**	Federal			43-013-31459		9	98		Duchesne	
								1		_

Page 1

## United States Department of the Interior BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

FEB 1 2 1996

IN REPLY REFER TO: 3100 U-01470A et al UT-923

FEB 0 9 1930

NOTICE

:

Enserch Exploration, Inc. 4849 Greenville Ave., Suite 1200 Dallas, Texas 75206-4186

Oil and Gas U-01470A et al

#### Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of DALEN Resources Oil & Gas Co. into Enserch Exploration, Inc. with Enserch Exploration, Inc. being the surviving entity.

For our purposes, the merger is recognized effective December 31, 1995 (Secretary of State's approval date).

The oil and gas lease files identified on the enclosed exhibit have been noted as to the merger. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field offices, you will be contacted by them.

If you identify other leases in which the merging entity maintains an interest, please contact this office and we will appropriately document those files with a copy of this notice.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from DALEN Resources Oil & Gas Co. to Enserch Exploration, Inc. on Bond No. U1870111 (BIM Bond No. WY2554). This is a nationwide bond held in the Wyoming State Office. Enserch Exploration, Inc. has a nationwide bond, No. 203826 (BIM Bond No. MT0680) on file in the Montana State Office. Only one of the bonds is required to cover liabilities for lease obligations. However, both bonds will remain in effect until the principal/obligor advises the appropriate BIM State Office which bond it wishes to maintain and which bond it wishes to have the period of liability terminated. A rider, assuming any and all liabilities of the bond you wish to terminate must be submitted for approval to the appropriate BIM State Office. If you have any questions concerning the bonding, please contact Irene Anderson at (801) 539-4108.

#### /s/ ROBERT LOPEZ

Chief, Branch of Mineral Leasing Adjudication

#### Enclosure

1. Exhibit (1p)

bc: State of Utah, Division of Oil, Gas & Mining, Attn: Lisha Cordova,
3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1204
MMS-Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217
Moab District Office
Vernal District Office
Teresa Thompson (UT-920)
Irene Anderson (UT-923)

### Exhibit of Leases

U-01470A	U-0143521A	U-52765	UTU-68328
		U-55626	UTU-68330
U-01790	U-0147541		
U-02896A	U-0147541A	U-58546	UTU-68338
U-03505	U-2838	U-61052	UTU-68346
บ-03576	บ–7206	U-61189	UIU-68347
U-013429A	U-10291	U-62657	UTU-68348
U-013765	U-10760	UTU-65218	UTU-68388
U-013766	U-11385	UTU-65472	UTU-68402
U-013767	บ–13905	UTU-65615	UTU-68544
U-013769	U-14236	UTU-65949	UTU-68548
U-013769A	บ–15392	UTU-66004	UTU-68619
U-013769B	U-16535	UTU-66027	UTU-68624
U-013769C	U-16539	UTU-66033	UTU-68625
U-013792	U-16544	UTU-66184	UTU-68626
U-013793	U-17036	UTU-66185	UTU-68627
U-013793A	U-17424	UTU-66193	UTU-68631
U-013794	U-19267	UTU-66484	UTU-69024
U-013818A	บ–30096	UTU-66743	UTU-69166
U-013820	บ–39221	UTU-67168	UTU-69482
U-013821A	U-39713	UTU-67841	UTU-72104
U-017713	U-39714	UTU-67857	UIU-73087
U-035316	U-40026	UTU-67996	UTU-73089
U-037164	U-47171	UTU-67997	UTU-73433
U-0141644	U-49092	UTU-68108	UTU-73512
U-0143519	U-50750	UTU-68109	UTU-74805
U-0143520A	U-51081	UTU-68316	UTU-74806
U-034217A	U-07978	UTU-72108	UTU-74872
		·	

Wells Draw Unit (UTU-72613A) West Willow Creek Unit (UTU-73218X) Pleasant Valley Unit (UTU-74477X)



# The State of Texas

## SECRETARY OF STATE CERTIFICATE OF MERGER

The undersigned, as Secretary of State of Texas, hereby certifies that the attached Articles of Merger of

DALEN CORPORATION

a Delaware no permit corporation
with
ENSERCH EXPLORATION, INC.
a Texas corporation

have been received in this office and are found to conform to law. ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the Secretary by law, hereby issues this Certificate of Merger.

Dated December 19, 1995.

Effective December 31, 1995 04:55 PM



Colf.

Antonio O. Garza, Jr. Secretary of State

#### ARTICLES OF MERGER OF

#### **DALEN Corporation**

INTO

FILED
In the Office of the
Secretarian Chate of Texas

DEC 1 9 1995

Corporations Section

#### Enserch Exploration, Inc.

Pursuant to the provisions of Article 5.16 of the Texas Business Corporation Act, Enserch Exploration, Inc., a corporation organized under the laws of the State of Texas ("Parent Corporation"), and owning at least ninety percent of the shares of DALEN Corporation, a corporation organized under the laws of the State of Delaware ("Subsidiary Corporation"), hereby executes the following Articles of Merger:

- 1. The name of the Parent Corporation is Enserch Exploration, Inc. The name of the Subsidiary Corporation is DALEN Corporation. Enserch Exploration, Inc. is incorporated in Texas, and DALEN Corporation is incorporated in Delaware.
- 2. The following is a copy of resolutions of the Board of Directors of Enserch Exploration, Inc. or Parent Corporation ("Enserch") adopted on December 5, 1995:

"WHEREAS Section 5.16 of the Texas Business Corporation Act permits short-form mergers if the subsidiary is a foreign corporation and the parent is a Texas corporation, provided that this procedure is permitted by the laws of the foreign corporation's jurisdiction of incorporation and

"WHEREAS Section 253 of the General Corporation Law of Delaware provides for short-form mergers between a domestic subsidiary corporation and a foreign parent corporation,

"RESOLVED, That DALEN Corporation, a Delaware corporation ('DALEN'), which is a wholly-owned subsidiary of Enserch, merge with and into Enserch Exploration, Inc. pursuant to Section 5.16 of the Texas Business Corporation Act (the 'Merger'), effective as of 4:55 P.M., Dallas, Texas time, on December 31, 1995, and that Enserch Exploration, Inc. assume all of the obligations of DALEN at such time; and

"FURTHER RESOLVED, That the proper officers of this Company are hereby authorized and empowered to file with the Secretary of State of the State of Texas Articles of Merger and with the Secretary of State of Delaware a Certificate of Ownership and Merger to effect the Merger of DALEN into this Company and to take, or cause to be taken, all such further action and to execute and deliver or cause to be executed and delivered, in the name of and on behalf of this Company, all such further instruments and documents as any such officer may deem to be necessary or advisable in order to effect the purpose and intent of the foregoing resolutions and to be in the best interests of this Company (as conclusively evidenced by the taking of such action or the execution and delivery of such instruments and documents, as the case may be, by or under the direction of any such officer)."

3. The number of outstanding shares of each class of the Subsidiary Corporation and the number of shares of each class owned by the surviving Parent Corporation is:

Company	Class	No. of Shares Outstanding	No. of Shares Owned by Parent Corporation
Subsidiary Corporation	Common	100	100

4. The laws of Delaware, the jurisdiction under which Subsidiary Corporation is organized, permit such a merger.

Dated this 12th day of December, 1995.

ENSERCH EXPLORATION, INC.

Name: J. W. Pinkerton

Name: J. W. Pinkerton

Title: Vice President and Controller,

Chief Accounting Officer



I, ANTONIO O. GARZA, JR., Secretary of State of Texas, DO HEREBY CERTIFY that Articles of Merger of ENSERCH EXPLORATION, INC. (Charter No. 1323890-00), a TEXAS corporation, and DALEN CORPORATION, a DELAWARE (No Permit) corporation, were filed in this office on DECEMBER 19, 1995, for which a certificate of merger was issued; and that according to the terms of the merger the surviving corporation is ENSERCH EXPLORATION, INC., a TEXAS corporation.



IN TESTIMONY WHEREOF, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in the City of Austin, on December 19, 1995.

Antonio O. Garza, Jr.
Secretary of State

MAC

FORM 10

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

Page 2 of 3

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:	<u>.</u>	<del></del> ]	UTA	H ACCOUNT NUMI	N4940 BER:	
JOHN W PEARCE ENSERCH EXPLORATION INC 6688 N CENTRAL EXP #100			REP	ORT PERIOD (MON	ih/year): 8 / 97	
DALLAS TX 75206-3922			AME	ENDED REPORT	(Highlight Changes)	
Well Name	Producing	Well	Days	T	Production Volumes	
API Number Entity Location	Zone	Status	Oper	OIL(BBL)	GAS(MCF)	WATER(BBL)
√NGC 24-15H FEDERAL  4301330681 06150 09S 17E 15  √FEDERAL 32-29	GRRV			4-10760		
4304731175 06170 095 18E 29 GOVERNMENT FOWLER 20-1	GRRV			4-19267		
4301330563 09555 09S 17E 20	GRRV			U-13905		
FEDERAL 12-9-H 4301330983 09830 095 17E 9	GRRV			U-50750	Placeant Velley Unit	
FEDERAL 23-9-H 4301331206 10868 09S 17E 9 FEDERAL **24-33-B **	GRRV			U-50750	u	
_ <sup>3-2</sup> 01331214 10913 085 16E 33	GRRV			4-49092	Wells Drew Unit	
JERAL 31-4-G / 4301331228 10979 095 16E 4	GRRV			U-30096	q	
FEDERAL 23-34-B 4301331241 11041 085 16E 34	GRRV			4-47171	4	
FEDERAL 11-4-G / 4301331250 11046 095 16E 4	GRRV	-		U-30096	"	
FEDERAL 23-33-B 4301331251 11047 085 16E 33	GRRV			U-49092	ι,	
FEDERAL 31-5-G				4-30096	11	
4301331252 11054 09S 16F 5 FEDERAL 44-33-B	GRRV			<del>-i</del>	1,	
4301331270 11084 085 16E 33	GRRV			4-49092	''	
4301331268 11086 085 16E 33	GRRV			4-49092	11	
		•	TOTALS			
OMMENTS:						
	<del></del>					
		·	<del></del>			
			<del>-</del>			
hereby certify that this report is true and complete to the	e best of my	knowledge.		D	ate:	· · · · · · · · · · · · · · · · · · ·
ame and Signature:		·			Telephone Number:	

Form 3160-5 (June 1990)

### DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

	Lease	Des	ignation	and	Serial	ı
--	-------	-----	----------	-----	--------	---

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U	-49	ひタム

6. If Indian, Allottee or Tribe Name

reservoi	NA	
SUBMIT IN TRIF	7. If Unit or CA, Agreement Designation	
1. Type of Well Oil X Well Well Other  2. Name of Operator  Inland Production Company	Wells Draw Unit 8. Well Name and No. Federal 24-33B 9. API Well No. 43-013-31214	
<ol> <li>Address and Telephone No.</li> <li>17th Street, Suite 1500, Denver, Colorado 80202</li> <li>Location of Well (Footage, Sec., T.,R.,M., or Survey Description</li> </ol>	Wells Draw (GR)  10. Field and Pool, or Exploratory Area  Wells Draw (GR)	
Section 33, SE/4 SW/4, T8S-R16E  12. CHECK APPROPRIATE BOX(s) TO	) INDICATE NATURE OF NOTICE, REP	Duchesne County, Utah ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	CTION
X Notice of Intent  Subsequent Report  Final Abandonment	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Change of Operator	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well
<ol> <li>Describe Proposed or Completed Operations (Clearly state all pewell is directionally drilled, give subsurface locations</li> </ol>	rtinent details, and give pertinent dates, including estin and measured and true vertical depths for all markers a	nated date of starting any proposed work. If and zones pertinent to this work.)*

Inland Production Company assumes operations of the above mentioned well effective August 16, 1997. Inland Production Company operates under BLM Bond No. UT0056.

DECEIVE SEP 25 1997 DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct Signed	Title Attorney-In-Fact	Date08/14/1997
(This space for Federal or State office use)		
Approved byConditions of approval, if any: CC: UTAH DOGM	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (June 1990)

## UN SED STACES DEPARTMENT OF THE INTERIOR RUBEAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
5. Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. —		5. Lease Designation and Serial No.
		U-49092
		6. If Indian, Allottee or Tribe Name
		NA
SUBMIT IN TRIFLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well		Wells Draw Unit
Oil Gas	8. Well Name and No.	
X Well Well Other  2. Name of Operator		Federal 24-33B
ENSERCH EXPLORATION INC.		9. API Well No.
3. Address and Telephone No.		43-013-31214
4849 Greenville Avenue, Suite 1200, Dallas, Texas 75206-4186 (214) 369-7893  4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		10. Field and Pool, or Exploratory Area
		Wells Draw (GR)
		11. County or Parish, State
Section 33, SE/4 SW/4, T8S-R16E		Duchesne County, Utah
	INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
Subsequent Report	Recompletion	New Construction
	Plugging Back	Non-Routine Fracturing
Final Abandonment	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	Other Change of Operator	Dispose Water (Note: Report results of multiple completion on
	and measured and true vertical depths for all markers a	and zones pertinent to this work.
Enserch Exploration Inc. has sold its interest in the WDI	O #24-330 redetal to illiana i roduction col	npany and reiniquisites operations
effective August 16, 1997. Inland Production Company	operates under BLM Bond No. UT0056.	

DECEIVE SEP 25 1997 DIV. OF OIL, GAS & MINING

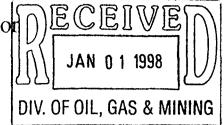
		DIV. OF OIL, GAS & MINING
14. I hereby certify that the foregoing is true and correct	Title Sr. Production Analyst	Date08/14/1997
(This space for Federal or State office use)	Title	Date
Approved by Conditions of approval, if any: CC: UTAH DOGM	Title	Date
Title 18 U.S.C. Section 1001, makes it a crime for any person fraudulent statements or representations as to any matter within	knowingly and willfully to make to any department its jurisdiction.	ent or agency of the United States any false, fictitious or



## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT Utah State Office

P.O. Box 45155 Salt Lake City, UT 84145-0155



December 31, 1997

Inland Production Company c/o UnitSource Incorporated 11184 Huron Street, Suite 16 Denver, Colorado 80234

Re:

Wells Draw (Green River) Unit

Duchesne County, Utah

#### Gentlemen:

On December 30, 1997, we received an indenture dated September 1, 1997, whereby Enserch Exploration, Inc. resigned as Unit Operator and Inland Production Company was designated as Successor Unit Operator for the Wells Draw (Green River) Unit, Duchesne County, Utah.

The indenture was approved by all required parties and the parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective December 31, 1997. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Wells Draw (Green River) Unit Agreement.

Your statewide ( Utah) oil and gas bond No. 0056 will be used to cover all operations within the Wells Draw (Green River) Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ George Diwachak

for Robert A. Henricks
Chief, Branch of Fluid Minerals

#### **Enclosure**

bcc:

District Manager - Vernal (w/enclosure)

Division of Oil Gas & Mining ;
Minerals Adjudication Group U-932

File - Wells Draw (Green River) Unit (w/enclosure)

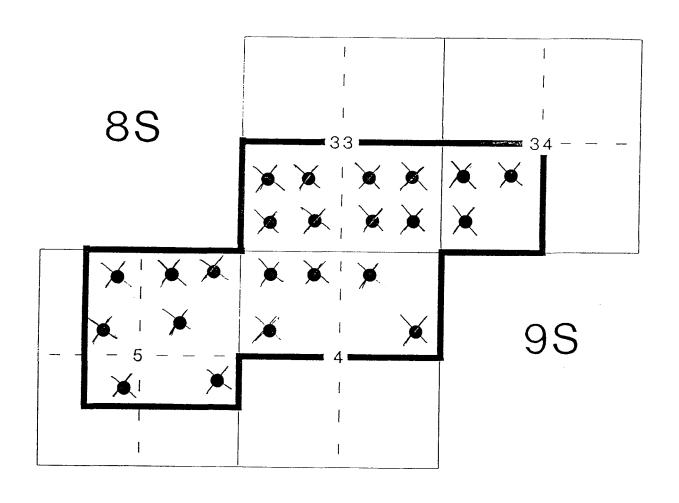
MMS - Data Management Division

Agr. Sec. Chron Fluid Chron

71010 0111011

UT931:TAThompson:tt:12/31/97

# WELLS DRAW (GREEN RIVER) UNIT Uintah County, Utah



16E

UNIT OUTLINE (UTU72613A)

SECONDARY ALLOCATION FEDERAL 100%

OPERATORINLAND PRODUCTION CO	OPERATOR ACCT. NO. N 5160
ADDRESS	

ACTION	CURRENT	HEH	API HUMBER	WELL	HAME	<del></del>						· · · · · · · · · · · · · · · · · · ·
CODE	ENTITY HO.	ENTITY NO.		11000	DATE	70	SC	WELL TP	LOCATIO RG	COUNTY	SPUD DATE	EFFECTIVE
D		12276					1		1		UATE	DATE
V511 > 6	()				····					DUCHESNE		8-16-97
אבננ ו נ	ОММЕНТS: 3	SEE ATTA(	CHED LIST; OP C	HG FR N4940 EFF	8-16-97 (V	VELLS DRAW	(GRRV	) UNI	Г)			<del> </del>
		OPERATOR	REQ CHG FOR T	AX & ROYALTY; &	DISPOSITIO	ON REPORTI	NG.					
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WELL 2 C	0111/61176	<u> </u>										
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WELL 5 CO	NUMERIT C.	<u> </u>										
5 (	); iii; [[[] ] ;											- <del>!</del>
				.~								
ACTION	N.E.C. / 5											
A -	- Establish	new entitu	on back of form) for new well (sin	ale wall and wh					<del></del>	7	4	
C -	. Remassion	Jarks of the	ing entity (group	or unit well)						L. CORDOVA	(DOGM)	
ñ -	Re-assion	well from o	ne existing entity	or unit well) y to another existin y to a new entity	g entity					ADMIN. ANA	I.VST	1-2-98
£ -	· Other (exp	olain in com	ments section)							Title	TIOI	

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Title

1-2-98 Date

Phone No. L

# INLAND PRODUCTION COMPANY (N5160)

CURRENT ENTITY	NEW ENTITY	API NUMBER	WELL NO.	SEC-T-R	EFF.
02043	12276	43-013-30858	43-5	05-09S-16E	8-16-97
06100	"	43-013-30699	12-4G	04-09S-16E	"
06105	"	43-013-30698	21-5G	05-09S-16E	"
06105	W.	43-013-31207	23-5-G	05-09S-16E	"
06115	"	43-013-30638	42-4	04-09S-16E	"
10913	N.	43-013-31214	24-33-B	33-08S-16E	w
10979	w	43-013-31228	31-4-G	04-09S-16E	"
11041	W	43-013-31241	23-34-B	34-08S-16E	W
11046	"	43-013-31250	11-4-G	04-09S-16E	W
11047	W	43-013-31251	23-33-B	33-08S-16E	u
11054	w	43-013-31252	31-5-G	05-09S-16E	"
11084	u	43-013-31270	44-33-B	33-08S-16E	u .
11086	W	43-013-31268	33-33-B	33-08S-16E	u
11092	11	43-013-31277	13-33-B	33-08S-16E	"
11103		43-013-31273	22-5-G	05-09S-16E	u
11104	W.	43-013-31271	13-34-B	34-08S-16E	"
10988	u.	43-013-31229	14-33-B	33-08S-16E	"
11007	u.	43-013-31240	43-33-B	33-08S-16E	N.
11079		43-013-31269	34-33-B	33-08S-16E	w
10980	w	43-013-31225	14-34-B	34-08S-16E	W
11107	"	43-013-31272	21-4-G	04-09S-16E	W
10859	W	43-013-31205	41-5-G	05-09S-16E	W.
06110	w	43-013-30670	32-5G	05-09S-16E	"

Division o	f Oil, Gas and Mining					Routing	1	, D
OPEF	RATOR CHA	NGE WORKSHEET	ſ			1-16	(ic	6-170×
		n received by the division reg hen completed. Write N/A i				2- <b>9</b> 4-VL		7-KAS 8-SI 9-FILE
	ange of Opera	tor (well sold) perator	_	nation of Age or Name Cha		L5-IRB		
The ope	erator of the w	vell(s) listed below has	changed, effe	ctive: <u>8-16</u>	5–97			
	ew operator) (address)	INLAND PRODUCTION PO BOX 1446 ROOSEVELT UT 840 Phone: (801)722-5	1 CO I	FROM: (old		ENSERCH EX 4849 GREEN DALLAS TX Phone: (21	75206-	AVE #1200 -4145
		Account no. N5160		•		Account no.		
WELL(	(S) attach addition	onal page if needed:	*WELLS	DRAW (GRE	EN RIVER) U	NIT		
Name:	**SEE ATTAC	API:API:	)13-31)14	Entity: Entity: Entity: Entity: Entity: Entity: Entity:	S T S T S T S T S T S T S T S T S T	R R R R R R R R R R R R R R R R R R R	Lease: Lease: Lease: Lease: Lease: Lease:	
PERA	TOR CHAN	IGE DOCUMENTAT	ION	-				
<u>ec</u> 1.	(r649-8-10) form). (f.	Sundry or other legal do	ocumentation	has been rece	eived from the	FORMER op	erator (a	attach to this
<u>ic</u> 2.		Sundry or other legal	documentation	on has been i	received from	the <b>NEW</b> ope	rator (A	ttach to this
	The <b>Depart</b> wells in Uta	ment of Commerce h h. Is the company reg	as been conta	icted if the noticed if the state? (y	ew operator at res/no)	oove is not cur If yes, show co	rently op ompany	perating any file number:
lec 4.	note of BLN	N AND FEDERAL Wastatus in comments sould ordinarily take placelow.	section of this	s form. BLM	<b>1</b> approval of 1	Federal and I	ndian w	ell operator
<u>ec</u> 5.	Changes hav	re been entered in the C  χ μις Δβ43ε	Dil and Gas II	nformation i	<b>System (3270)</b>	) for each well	listed ab	ove.
<u>C</u> 6.	Cardex file	has been updated for ea	ach well listed	d above. (1-	2-98)			
<u>uc</u> 7.	Well file lab	els have been updated	for each well	listed above.	(1-2-98)			
<u>ec</u> 8.	Changes have to Trust Land	e been included on the r ds, Sovereign Lands, U	monthly "Ope IGS, Tax Com	rator, Addres mission, etc.	ss, and Accour (1-2-98)	nt Changes" <b>m</b>	emo for	distribution

9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

OPERATO	OR CHANGE WORKSHEET (continued) - Initial each item when completed. Write N/A if item is not applicable.
ENTITY	REVIEW
fec 1.	REVIEW  (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made?  (yes/no) If entity assignments were changed, attach copies of Form 6, Entity Action Form.  Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity
<u> </u>	Trust Lands, Sovereign Lands, Tax Commission, etc., have been <b>notified</b> through normal procedures of entity changes.
	ERIFICATION - (FEE WELLS ONLY)
<u>N</u> A 1.	(r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.  A copy of this form has been placed in the new and former operator's bond files.
2.	A copy of this form has been placed in the new and former operator's bond files.
3.	The <b>FORMER</b> operator has requested a release of liability from their bond (yes/no), as of today's date If yes, division response was made to this request by letter dated
LEASE I	NTEREST OWNER NOTIFICATION OF RESPONSIBILITY
DTS 14/19 2.	Copies of documents have been sent on to at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.  (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 19, of their responsibility to notify all interest owners of this change.
FILMING	
<b>1</b> .	All attachments to this form have been <b>microfilmed</b> . Today's date: 1,30,198.
FILING	
1.	Copies of all attachments to this form have been filed in each well file.
2.	The original of this form, and the original attachments are now being filed in the Operator Change file.
COMME	NTS
980102	Blm/SL aprv. Wells Draw (GRRV) Unit 4 H. 12-31-97.

FORM 3160-5 (June 1990)

	UNITED STATES
DEPA	MENT OF THE INTERIOR
BUR	U OF LAND MANAGEMENT

FORM APPROVE	D
Budget Bureau No.	1004-0135

Budget B	ureau No.	1004-013
Evniree:	March 31	1993

Expires:	Marc	ch 31	, 1993	;
Longo Donion		and	Comini	NI

U-49092

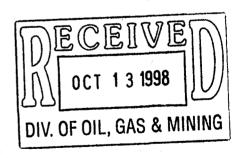
<b>SUNDKY</b>	NOTICE2	AND KER	OK 15 ON	MELLO

Do not use this form for proposals to drill or to deepen or reentry a different reservoir. 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT -" for such proposals NA 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE WELLS DRAW 1. Type of Well 8. Well Name and No. Oil Gas Well Well Other FEDERAL 24-33-B 9. API Well No. 43-013-31214 2. Name of Operator INLAND PRODUCTION COMPANY 10. Field and Pool, or Exploratory Area MONUMENT BUTTE 3. Address and Telephone No. 475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900 11. County or Parish, State 4. Location of Well (Footage, Sec., T., R., m., or Survey Description) **DUCHESNE COUNTY, UTAH** 0330 FSL 2103 FWL SE/SW Section 33, T08S R16E CHECK APPROPRIATE BOY(s) TO INDICATE NATURE OF NOTICE REPORT OF OTHER DATA

	UBMISSION	I O II I DIOA		PE OF ACTION	
X	Notice of Intent Subsequent Report Final Abandonment Notice	Recom Pluggi Casing	ionment ing Back g Repair ing Casing Site Security	•	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water Report results of multiple completion on Well tion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the site security diagram for the above referenced well.



ereby certify that the foregoing is true and correct Signed Luliue E. Knight	Title	Manager, Regulatory Compliance	Date	10/8/98
This space for Federal or State office use)			· · · · · · · · · · · · · · · · · · ·	
			Date	

# **Inland Production Company Site Facility Diagram**

Wells Draw 24-33B

SE/SW Sec. 336, T8S, 16E

**Duchesne County** 

May 12, 1998

Site Security Plan is held at the Roosevelt Office, Roosevelt Utah

#### **Production Phase:**

- 1) Valves 1, and 3 sealed closed
- 2) Valves 2 and 4 sealed open

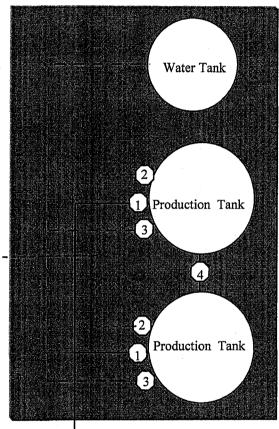
#### Sales Phase:

- 1) Valves 2, 3, and 4 sealed closed
- 2) Valves 1 open

#### **Draining Phase:**

1) Valve 3 open

Diked Section —



Treater

#### Legend

Pumping Unit
Well Head

FORM 3160-5 (June 1990)

### IITED STATES BUREAU OF LAND MANAGEMENT

FORM APPROVEI
Budget Bureau No.

Budget 1	Bureau No.	1004-013
Evnires	March 31	1993

Expires:	March 31,	1993

Completion or Recompletion Report and Log form,)

5.	Lease I	Designation	and	Serial	No

SUNDRY NOTICES AN	D REPORTS ON WELLS	U-49092
Do not use this form for proposals to drill or to dee  Use "APPLICATION F	pen or reentry a different reservoir. OR PERMIT -" for such proposals	6. If Indian, Allottee or Tribe Name NA
SUBMIT IN	I TRIPLICATE	7. If Unit or CA, Agreement Designation WELLS DRAW
X Oil Well Gas Well Other	RECEIVED	8. Well Name and No.  FEDERAL 24-33-B 9. API Well No.
2. Name of Operator	MAR 0 6 2003	43-013-31214
INLAND PRODUCTION COMPANY  3. Address and Telephone No.	DIV. OF OIL, GAS & MINING	10. Field and Pool, or Exploratory Area  MONUMENT BUTTE
Rt. 3 Box 3630, Myton Utah, 84052 435-64	46-3721	11. County or Parish, State
4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  0330 FSL 2103 FWL SE/SW Section	n 33, T8S R16E	DUCHESNE COUNTY, UTA
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF A	CTION
Notice of Intent  X Subsequent Report  Final Abandonment Notice	Abandonment  Recompletion  Plugging Back Casing Repair  Altering Casing  Other	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water  (Note: Report results of multiple completion on Well

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Subject well had recompletion procedures initiated in the Green River formation on 2/14/2003. Existing production equipment was pulled from well. A bit & scraper was ran in well. Well was cleaned out to 6315'. Five new Green River intervals were perforated and hydraulically fracture treated as follows: Stage #1: CP3 sds @ 6000'-6010' (4 JSPF) fraced down 2 7/8 N-80 tbg W/ 22,894# 20/40 mesh sand in 220 bbls YF 125 fluid. Stage #2: CP .5 sds @ 5827'-5832' and CP1 sds @ 5857'-5860' & 5875'-5880' (all 4 JSPF) fraced down 2 7/8 N-80 tbg W/ 50,132# 20/40 mesh sand in 436 bbls YF 125 fluid. Stage #3: A3 sds @ 5434'-5439' (4 JSPF) fraced down 2 7/8 N-80 tbg W/ 6,942# 20/40 mesh sand in 115 bbls YF 125 fluid (communicated W/ upper perfs W/ 3,586# sand in formation). Packer was raised and interval was re-fraced along W/ existing perfs @ 5378'-5394' W/ 14,438# 20/40 mesh sand in 153 bbls YF 125 fluid. Stage #4: C sds @ 5117'-5124' & 5128'-5132' and B .5 sds @ 5178'-5181' (all 4 JSPF) fraced down 2 7/8 N-80 tbg W/ 27,895# 20/40 mesh sand in 252 bbls YF 125 fluid (tbg ruptured during flush W/ approx. 24,989# sd in formation--a short fishing job followed). Stage #5: GB4 sds @ 4430'-4434', GB6 sds @ 4469'-4475' & 4480'-4492' and PB11 sds @ 4674'-4684' (all 4 JSPF) fraced down 5 1/2" 17# casing W/ 60,274# 20/40 mesh sand in 661 bbls YF 125 fluid. Most fracs were flowed back through chokes. Frac tbg and tools were pulled from well. Well was cleaned out to 6315'. New intervals were swab tested for sand cleanup (along with existing intervals). A revised BHA & production tbg was ran in and anchored in well W/ tubing anchor @ 6100', pump seating nipple @ 6134' and end of tubing string @ 6167'. A repaired 1 1/2" bore rod pump was ran in well on sucker rods. Well was returned to production via rod pump on 3/3/2003

14. I hereby certify that the foregoing is true and correct  Signed  Gary Dietz	Title	Completion Foreman	Date	3/4/2003
CC: UTAH DOGM				
(This space for Federal or State office use)		<del></del>		
Approved by	Title		Date	
Conditions of approval, if any:				
CC: Utah DOGM				



## United States Department of the Interior



# BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Llouters

Michael Coulthard Acting Chief, Branch of Fluid Minerals

#### Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114 Teresa Thompson Joe Incardine

Connie Seare

Corporations Section P.O.Box 13697 Austin, Texas 78711-3697



Geoffrey S. Connor Secretary of State

### Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

# ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

#### ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

#### ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs, Treasurer

*	•		•		•
UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	•
065914	16539	63073B	73520A	76808	
.'	16544	63073D	74108	76813	•
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553·	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013 <sup>.</sup>	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	0100711
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833 <sup>,</sup>	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	-
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
•	50750	72107	75238	•	
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		
			,		

#### Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

1. GLH 2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

#### X Operator Name Change

#### Merger

The operator of the well(s) listed below has changed, e	ffective: 9/1/2004
FROM: (Old Operator):	TO: ( New Operator):
N5160-Inland Production Company	N2695-Newfield Production Company
Route 3 Box 3630	Route 3 Box 3630
Myton, UT 84052	Myton, UT 84052
Phone: 1-(435) 646-3721	Phone: 1-(435) 646-3721
CA No.	Unit: Wells Draw (Green River)

NAME	SEC	TWN	RNG	API NO	1	LEASE	WELL	WELL
WELLS DRAW FED 44-31	31	080S	160E	4301331116	NO 12276	TYPE Federal	TYPE OW	STATUS P
STATE 32-32	32	080S		4301331110	12276		WI	A
STATE 14-32	32	080S		4301331039	12276		WI	ī
STATE 24-32	32	080S		4301331040	12276		ow	P
STATE 23-32	32	080S		4301331041	12276		WI	A
STATE 13-32	32	080S		4301331112	12276		ow	P
GAVILAN ST 22-32	32	080S	160E	4301331168	12276	State	ow	P
STATE 33-32	32	080S	160E	4301331185	12276	State	OW	P
FEDERAL 24-33-B	33	080S	160E	4301331214	12276	Federal	ow	P
FEDERAL 14-33-B	33	080S	160E	4301331229	12276	Federal	WI	A
FEDERAL 43-33-B	33	080S	160E	4301331240	12276	Federal	WI	A
FEDERAL 14-34-B	34	080S	160E	4301331225	12276	Federal	WI	A
FEDERAL 23-34-B	34	080S	160E	4301331241	12276	Federal	WI	A
FEDERAL 42-4	04	090S	160E	4301330638	12276	Federal	OW	P
NGC 12-4G	04	090S	160E	4301330699	12276	Federal	WI	A
FEDERAL 31-4-G	04	090S	160E	4301331228	12276	Federal	OW	P
NGC FED 32-5G	05	090S	160E	4301330670	12276	Federal	WI	A
NGC FED 21-5G	05	090S	160E	4301330698	12276	Federal	WI	A
CASTLE PEAK 43-5	05	090S	160E	4301330858	12276	Federal	WI	A
WELLS DRAW FED 11-5	05	090S	160E	4301331144	12276	Federal	OW	P
FEDERAL 41-5-G	05	090S	160E	4301331205	12276	Federal	WI	A
FEDERAL 23-5-G	05	090S	160E	4301331207	12276	Federal	WI	Α

#### **OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 9/15/2004
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 9/15/2004

3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 2/23/2005

4. Is the new operator registered in the State of Utah:

YES Business Number:

755627-0143

5. If NO, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on:	IN PLACE		
6b. Inspections of LA PA state/fee well sites complete on:	waived		
7. Federal and Indian Lease Wells: The BLM and or the state of the sta		•	•
or operator change for all wells listed on Federal or Indian lea	ises on:	BLM	BIA
8. Federal and Indian Units:			
The BLM or BIA has approved the successor of unit operat	or for wells listed on	:n/a	
9. Federal and Indian Communization Agreement	•	,	
The BLM or BIA has approved the operator for all wells lis	sted within a CA on:	na/	
10. Underground Injection Control ("UIC") The	Division has approv	ed UIC Form 5. Tr	ansfer of Authority to
Inject, for the enhanced/secondary recovery unit/project for t			2/23/2005
	····	(-)	
DATA ENTRY:	2/28/2005		
1. Changes entered in the Oil and Gas Database on:	2/28/2003		
2. Changes have been entered on the Monthly Operator Chang	ge Spread Sheet on:	2/28/200	<u>)5</u>
3. Bond information entered in RBDMS on:	2/28/2005		
5. Bold information efficied in KDDWi5 off.	2/20/2003		
4. Fee/State wells attached to bond in RBDMS on:	2/28/2005		
5. Injection Projects to new operator in RBDMS on:	2/28/2005		
or injection and the second of			
6. Receipt of Acceptance of Drilling Procedures for APD/New of	on:	waived	
FEDERAL WELL(S) BOND VERIFICATION:			
1. Federal well(s) covered by Bond Number:	UT 0056		
INDIAN WELL(S) BOND VERIFICATION:			
1. Indian well(s) covered by Bond Number:	61BSBDH2912		
FEE & STATE WELL(S) BOND VERIFICATION	•	<del></del>	
1. (R649-3-1) The NEW operator of any fee well(s) listed cover		61BSBDH2	2919
1	Ž		<del></del>
2. The FORMER operator has requested a release of liability fro	m their bond on:	n/a*	
The Division sent response by letter on:	n/a		
LEASE INTEREST OWNER NOTIFICATION:			
3. (R649-2-10) The <b>FORMER</b> operator of the fee wells has been	contacted and inform	med by a letter from	the Division
of their responsibility to notify all interest owners of this change		n/a	the Division
	_		
COMMENTS:	4- NT. C 117	1	1.0/02/07
*Bond rider changed operator name from Inland Production Comp	oany to Newfield Pro	auction Company -	received 2/23/05
			•



February 27, 2008

Mr. Dan Jarvis State of Utah Division of Oil, Gas and Mining Post Office Box 145801 Salt Lake City, Utah 84114-5801

RE:

Permit Application for Water Injection Well

Wells Draw Federal 24-33-8-16 Monument Butte, Lease #U-49092 Section 33-Township 8S-Range 16E

Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Wells Draw Federal #24-33-8-16 from a producing oil well to a water injection well in the Monument Butte (Green River)

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Eric Sundberg Regulatory Analyst

RECEIVED

MAR 1 1 2008

DIV. OF OIL, GAS & MINING

Clist 346.1

# NEWFIELD PRODUCTION COMPANY APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL WELLS DRAW FEDERAL #24-33-8-16 MONUMENT BUTTE FIELD (GREEN RIVER)

LEASE #U-49092

February 27, 2008

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## STATE OF UTAH DIVISION OF OIL, GAS AND MINING

OPERATOR

ADDRESS

Comments:

#### APPLICATION FOR INJECTION WELL - UIC FORM 1

Newfield Production Company 1401 17th Street, Suite 1000

Denver, Colorado 80202

Well Name and number:	Wells Dra	aw Federal 2	24-33-8-16					
Field or Unit name: Monumen	t Butte				, , , , , , , , , , , , , , , , , , , ,	Lease No.	U-49092	
Well Location: QQ SE/SW	section	33	township	88	_range	16E	_ county	Duchesne
Is this application for expansion	of an existing	g project? .			Yes[X]	No[]		
Will the proposed well be used	for:	Disposal?	d Recovery? ?		Yes[]	۷o [ X ]		
Is this application for a new well this application is for an exist has a casing test been perfor Date of test:  API number: 43-013-31214	ng well,							
Proposed injection interval: Proposed maximum injection: Proposed injection zone containable of the well.			to pressure f gresh wate	6232 1565 er within 1	psig /2			
IMPO	RTANT:		al information ny this form.	as require	d by R615-	5-2 should		
List of Attachments:	Attachme	ents "A" thro	ough "H-1"					Section 1
I certify that this report is true a  Name: Eric Sundberg  Title Regulatory Ana Phone No. (303) 893-0102	ılyst	o the best o	of my knowled Signature _ Date	ge. 3/7/0	Jan 18			-
(State use only) Application approved by Approval Date					Title			

#### Federal #24-33B-8-16

Initial Production: 37 BOPD, 0 MCFD Spud Date: 8-15-88 0 BWPD Put on Production: 10-9-88 Proposed Injection GL: 5715' KB: 5730' Wellbore Diagram FRAC JOB SURFACE CASING 0,000# 20/40 sand in 642 bbl frac fluid. Avg. treating press. 3300 psi @ 36 BPM. CSG SIZE: 9-5/8" ISIP 2000 psi. Calc. flush: 6304 gal. GRADE: L-80, N-80 Actual flush 294 gal. Screened out. WEIGHT: 47#, 53.5# 9-21-88 6144'-6154' 50.000# 20/40 sand in 692 bbl frac fluid Avg. treating press. 2400 psi @ 35 BPM. ISIP 2000 psi. Calc. flush: 6144 gal. LENGTH: 7 JTS (295.8') DEPTH LANDED: 310' Actual flush 5964 gal. HOLE SIZE: 12-1/4" 66,500# 20/40 sand in 590 bbl frac fluid. holes 5896'-5914' Avg. treating press. 1900 psi @ 36 BPM. SIP 3800 psi. Calc. flush: 5896 gal. CEMENT DATA: 165 skx Class "G"cmt, est ? bbls to surface Actual flush 5544 gal. 38,500# 20/40 sand + 28,000# 16/30 sand 9-27-88 5378'-5394' in 786 bbls, frac fluid. Avg. treating press. 1900 psi @ 36 BPM. ISIP-1600 psi. Calc. flush: 5378 gal. Actual flush 5208 gal. 4934'-5004' 192,000# 20/40 sand in 1649 bbls. frac 9-29-88 PRODUCTION CASING fluid. Avg. treating press. 2000 psi @ 50 BPM. ISIP-1800 psi. Calc. flush: 4934 gal. CSG SIZE: 5-1/2" / 17# / K-55 Actual flush 4788 gal. LENGTH: 5564' 6000'-6010' Frac CP3 sands as follows: 2-17-03 CSG SIZE: 5-1/2" / 17# / N-80 22,894# 20/40 sand in 220 bbls. YF 125 fluid. Treated @ avg. pressure of 4580 psi w/avg. rate of 15.2 BPM. ISIP-1933 psi. LENGTH: 5564' - 6410' Cement Top @ 2405' SET AT: 6410'KB Calc. flush: 1499 gal. Actual flush: 1444 HOLE SIZE: 7-7/8" 2-18-03 Frac CP.5 and CP1 sands as follows: 5827'-5880' CEMENT DATA: 125 sks Hi-Lift & 500 Class "G" cement. 50,132# 20/40 sand in 436 bbls. YF 125 CEMENT TOP AT: 2405' fluid. Treated @ avg. pressure of 4007 psi w/avg. rate of 16.5 BPM. ISIP-2650 psi. Calc. flush: 1470 gal. Actual flush: 1405 5434'-5439' Frac A3 sands as follows: <u>TUBIN</u>G 6,942# 20/40 sand in 115 bbls. YF 125 fluid. Treated @ avg. pressure of 4557 psi SIZE/GRADE/WT: 2-7/8", J-55, 6.5# w/avg. rate of 15.4 BPM. ISIP-N/A. Frac NO. OF JOINTS: 194 jts (6084.95') KB communicated to upper perfs. Packer @ 4445 TUBING ANCHOR: 6099.95'KB 5378'-5439' Frac existing A2 and new A3 sands as 2-18-03 NO. OF JOINTS: 1 jt (31.37') KB 14,438# 20/40 sand in 153 bbls. YF 125 SEATING NIPPLE: 2-7/8" 4430'-4434 fluid. Treated @ avg. pressure of 3277 psi 4480'-4492 w/avg. rate of 15.6 BPM. ISIP-1878 psi. as SN LANDED AT: 6134.07' KB Calc. flush: 1413 gal. Actual flush: 1302 4469'-4475' NO. OF JOINTS: 1 jt (31.85') KB 4674'-4684' TOTAL STRING LENGTH: EOT @ 6167.42' KB 5117'-5181' Frac B.5 and C sands as follows: 2-18-03 27,895# 20/40 sand in 252 bbls. YF 125 4934'-4964' fluid. Treated @ avg. pressure of 3075 psi w/avg. rate of 16 BPM. ISIP-NA. Tubing 4992'-5004 Frac GB and PB sands as follows: 2-26-03 4430'-4684' 60,274# 20/40 sand in 661 bbls. YF 125 5117'-5124' fluid. Treated @ avg. pressure of 1959 psi 5128'-5132' w/avg. rate of 22.5 BPM. ISIP-2150 psi. 5178'-5181' Calc. flush: 4430 gal. Actual flush: 4206 5378'-5394' Pump change. 2/03/04 5434'-5439' Pump Change, Update rod and tubing detail PERFORATION RECORD
Pump Change, Update rod and tubing leak.
9-15-88 6304'-6309' 4 JSPF 20 ho 02/17/06 5827'-5832' 05/10/06 5857'-5860' 20 holes 6144'-6154' 40 holes 9-20-88 4 JSPF 5875'-5880' 9-22-88 5896'-5900' 4 JSPF 16 holes 9-22-88 5902'-5914' 4 JSPF 48 holes 5896'-5900' 9-24-88 5378'-5394' 4 ISPE 64 holes 5902'-5914 4992'-5004 4 JSPF 48 holes 9-28-88 6000'-6010' 9-28-88 4934'-4964' 4 JSPF 120 holes 6000,-6010, 4 JSPF 40 holes 2-17-03 6144-6154 2-17-03 5875'-5880' 4 JSPF 20 holes 5857'-5860' 4 JSPF 12 holes 2-17-03 6304'-6309' NEWFIELD 2-17-03 5827'-5832' 4 JSPF 20 holes 2-17-03 5434'-5439' 4 JSPF 20 holes PBTD @ 6329'KB 2-17-03 5178'-5181' 4 ISPF 12 holes 5128'-5132' 4 JSPF 16 holes 2-17-03 2-17-03 5117'-5124' 4 JSPF Federal #24-33B-8-16 SHOE @ 6410' 4674'-4684' 4 JSPF 40 holes 2-17-03 2103 FWL & 330 FSL 2-17-03 4480'-4492' 4 JSPF 48 holes TD @ 6411'KB 4469'-4475' 4 JSPF 24 holes SE/SW Section 33-T8S-R16E 2-17-03 2-17-03 4430'-4434' 4 JSPF 16 holes Duchesne Co, Utah API #43-013-31214; Lease #UTU-49092

#### WORK PROCEDURE FOR INJECTION CONVERSION

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
- 3. Test casing and packer.
- 4. Rig down and move out.

## REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS RULE R615-5-1

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:
  - 2.1 The name and address of the operator of the project.

Newfield Production Company 1401 17<sup>th</sup> Street, Suite 1000 Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Wells Draw Federal #24-33-8-16 from a producing oil well to a water injection well in Monument Butte (Green River).

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. For Wells Draw Federal.#24-33-8-16 well, the proposed injection zone is from Garden Gulch to Basal Carbonate (4509' - 6232'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD which ever is shallower. The Garden Gulch Marker top is at 1757' and the TD is at 6411'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for Wells Draw Federal #24-33-8-16 is on file with the Utah Division of Oil, Gas and Mining.

2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.

See Attachment B.

2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.

See Attachment C.

2.10 Any additional information the Board may determine is necessary to adequately review the petition.

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.

This proposed injection well is on a State lease (Lease #U-49092) in the Monument Butte (Green River) Field, Wells Draw Federal, and this request is for administrative approval.

# REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE AND ENHANCED RECOVERY WELLS SECTION V – RULE R615-5-2

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.

See Attachments A and B.

2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.

All logs are on file with the Utah Division of Oil, Gas and Mining.

2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

2.5 A description of the casing or proposed easing program of the injection well and of the proposed method for testing the easing before use of the well.

The casing program is 8-5/8", 24#, J-55 surface casing run to 310' KB, and 5-1/2" 15.5# J-55 casing run from surface to 5564' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attachment F.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1565 psig.

2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The minimum fracture gradient for the Wells Draw Federal #24-33-8-16, for existing perforations (4480' - 6309') calculates at 0.73 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1565 psig. We may add additional perforations between 4509' and 6411'. See Attachments G and G-1.

2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.

In the Wells Draw Federal #24-33-8-16, the proposed injection zone (4509' - 6232') is in the Garden Gulch to Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.

See Attachments E through E-11.

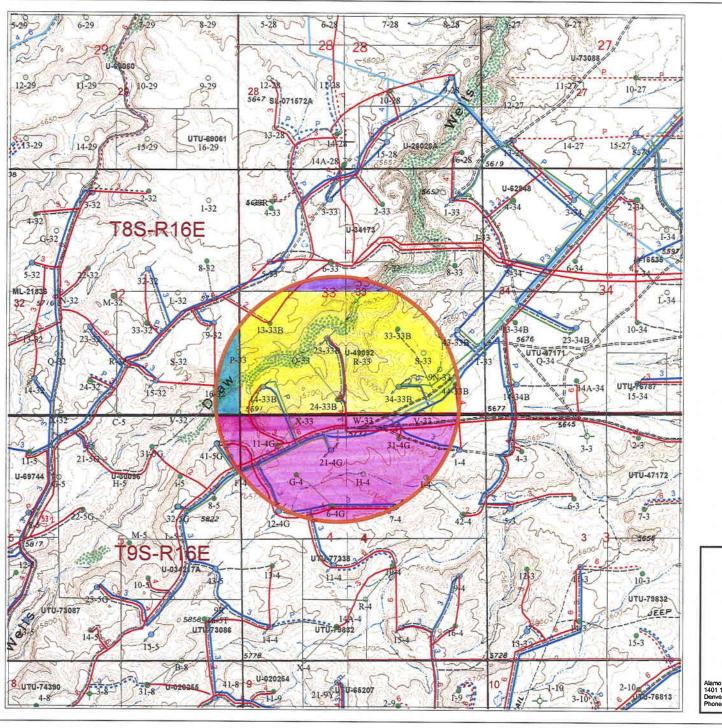
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

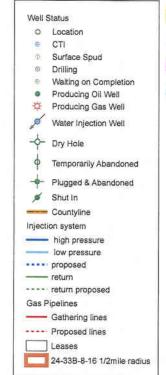
2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.

See Attachment C.

2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.

Newfield Production Company will supply any requested information to the Board or Division.

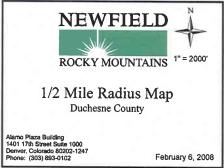




M4-21836

Athumat "

Federal 24-33B-8-16 Section 33, T8S-R16E



# T8S, R16E, S.L.B.&M. \$89° 58'W 79.96 NGC # 24-33-B Elev. Ungraded Ground = 5717' 2103 \$89° 57'E 2640.48' (Measured) Basis of Bearings

A = SECTION CORNERS LOCATED

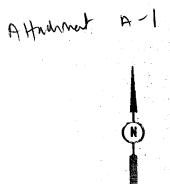
#### PROJECT

#### NGC ENERGY COMPANY

Well Location, NGC NO. 24-33-B, Located as Shown in the SEI/4 SWI/4, Section 33, T8S, RIGE, S.L.B.8M. Duchesne County, Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE SW CORNER OF SECTION 33, T8S, RIGE, S.L.B.8 M. TAKEN FROM THE MYTON SW, QUADRANGLE, UTAH-DUCHESNE COUNTY, 7.5 MINUTE QUAD, (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS MARKED AS BEING 5691 FEET,



#### CERTIFICATE

THIS IS 10 CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE—FRUE AND CORRECT TO THE BEST OF MY KNUWLEDGE AND BELIED.

REGISTERED LAND SURVEYOR REGISTRATION Nº 3137

# UINTAH, ENGINEERING & LAND SURVEYING P.O. BOX Q — 85 SOUTH - 200 EAST VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE
1 - 1000	7 /5 /88
PARTY	REFERENCES
GS JS CM JAK	GLO
WEATHER	FILE
L UAT	HOU ENEBRY OF

# EXHIBIT B Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	Township 9 South, Range 16 East Section 4: Lots 1-4, S2N2 Section 5: Lots 1-3, S2NE4, SENW, NES	UTU-30096 HBP W	Newfield Production Company	(Surface Rights) USA
2	Township 8 South, Range 16 East Section 33: S2	U-49092 HBP	Newfield Production Company	(Surface Rights) USA
3	Township 8 South, Range 16 East Section 32: All	ML-21836 HBP	Newfield Production Company Producers Pipeline Corp. Gavilan Petroleum Inc. Dall Cook	(Surface Rights) St. of Utah
4	Township 9 South, Range 16 East Section 33: N2	U-34173 HBP	Newfield Production Company	(Surface Rights) USA

#### ATTACHMENT C

#### CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well Wells Draw Federal #24-33-8-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:

Newfield Production Company

Eric Sundberg

Regulatory Analyst

Sworn to and subscribed before me this\_

day of March

2008

Notary Public in and for the State of Colorado:

My Commission Expires:

. U>10S

### Federal #24-33B-8-16

Spud Date: 8-15-88
Put on Production: 10-9-88
GL: 5715' KB: 5730'

API#43-013-31214; Lease #UTU-49092

Wellbore Diagram

Initial Production: 37 BOPD, 0 MCFD 0 BWPD

GL: 5715' KB: 5730'	Wellbore I	Diagram		21112	
SURFACE CASING			FRAC J	IOB.	66,000# 20/40 sand in 642 bbl frac fluid.
CSG SIZE: 9-5/8"			9-17-00	0304 -0309	Avg. treating press. 3300 psi @ 36 BPM.
GRADE: L-80, N-80					ISIP 2000 psi. Calc. flush: 6304 gal. Actual flush 294 gal. Screened out.
WEIGHT: 47#, 53.5#			9-21-88	6144'-6154'	50,000# 20/40 sand in 692 bbl frac fluid.
LENGTH: 7 JTS (295.8')		l Ni	7 21 00	0144 -0104	Avg. treating press. 2400 psi @ 35 BPM.
DEPTH LANDED: 310'	4				ISIP 2000 psi. Calc. flush: 6144 gal. Actual flush 5964 gal.
HOLE SIZE: 12-1/4"			9-23-88	5896'-5914'	66,500# 20/40 sand in 590 bbl frac fluid.
CEMENT DATA: 165 skx Class "G"cmt, est? bbls to surf	ace				Avg. treating press. 1900 psi @ 36 BPM. ISIP 3800 psi. Calc. flush: 5896 gal.
					Actual flush 5544 gal.
			9-27-88	5378`-5394`	38,500# 20/40 sand + 28,000# 16/30 sand in 786 bbls. frac fluid. Avg. treating press. 1900 psi @ 36 BPM. ISIP-1600 psi. Calc.
+ <u></u>			9-29-88	4934'-5004'	flush: 5378 gal. Actual flush 5208 gal. 192,000# 20/40 sand in 1649 bbls. frac
PRODUCTION CASING	11 11		3-23-00	4934 -3004	fluid. Avg. treating press. 2000 psi @ 50
CSG SIZE: 5-1/2" / 17# / K-55 LENGTH: 5564'					BPM, ISIP-1800 psi. Calc. flush: 4934 gal. Actual flush 4788 gal.
CSG SIZE: 5-1/2" / 17# / N-80			2-17-03	6000'-6010'	Frac CP3 sands as follows: 22,894# 20/40 sand in 220 bbls. YF 125
LENGTH: 5564' - 6410'	Cement Top @ 2405'				fluid. Treated @ avg. pressure of 4580 psi
SET AT: 6410'KB	Comon Top & 2100	Н			w/avg. rate of 15.2 BPM. ISIP-1933 psi. Calc. flush: 1499 gal. Actual flush: 1444
HOLE SIZE: 7-7/8"					gal.
CEMENT DATA: 125 sks Hi-Lift & 500 Class "G" cement.			2-18-03	5827'-5880'	Frac CP.5 and CP1 sands as follows: 50,132# 20/40 sand in 436 bbls. YF 125
CEMENT TOP AT: 2405'					fluid. Treated @ avg. pressure of 4007 psi w/avg. rate of 16.5 BPM. ISIP-2650 psi.
		678 246 5.0 250 251			Calc. flush: 1470 gal. Actual flush: 1405 gal.
TUBING		4430'-4434'	2-18-03	5434'-5439'	Frac A3 sands as follows:
SIZE/GRADE/WT: 2-7/8", J-55, 6.5#	<b>1</b>	1			6,942# 20/40 sand in 115 bbls. YF 125 fluid. Treated @ avg. pressure of 4557 psi
NO. OF JOINTS: 194 jts (6084.95') KB	岩川	4469'-4475'			w/avg. rate of 15.4 BPM. ISIP-N/A. Frac
TUBING ANCHOR: 6099.95'KB	74	4480'-4492'	÷		communicated to upper perfs.
NO. OF JOINTS: 1 jt (31.37') KB		4674'-4684'	2-18-03	5378'-5439'	Frac existing A2 and new A3 sands as follows:
SEATING NIPPLE: 2-7/8"	<b>秦</b>	4934'-4964'			14,438# 20/40 sand in 153 bbls. YF 125
SN LANDED AT: 6134.07' KB	<u> </u>	40001 50041			fluid. Treated @ avg. pressure of 3277 psi w/avg. rate of 15.6 BPM. ISIP-1878 psi.
NO. OF JOINTS: 1 jt (31.85') KB		4992'-5004'			Calc. flush: 1413 gal. Actual flush: 1302
TOTAL STRING LENGTH: EOT @ 6167.42' KB		5117'-5124'	2 10 02	E1151 E1011	gal.  Frac B.5 and C sands as follows:
	<b>1</b>	5128'-5132'	2-18-03	5117'-5181'	27,895# 20/40 sand in 252 bbls. YF 125
•		<b>重</b> 5178'-5181'			fluid. Treated @ avg. pressure of 3075 psi w/avg. rate of 16 BPM. ISIP-NA. Tubing
SUCKER RODS	<b>∄</b> Ⅲ	5378'-5394'			rupture.
POLISHED ROD: 1-1/2"x22'	1	5434'-5439' 5827'-5832'	2-26-03	4430'-4684'	Frac GB and PB sands as follows:
SUCKER RODS: 1-2', 1-4', 2-8' x 7/8" pony rods; 68 - 7/8" s 7/8" mixed rods; 118 - 3/4" plain rods; 10 - 3/4" scrapered rod		5857'-5860'			60,274# 20/40 sand in 661 bbls. YF 125 fluid. Treated @ avg. pressure of 1959 psi w/avg. rate of 22.5 BPM. ISIP-2150 psi.
weight rods.	ls; 6 - 1 - 1/2"	5875'-5880'			Calc. flush: 4430 gal. Actual flush: 4206
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC	■ 重	2896,-2900,	2/03/04		gal. Pump change.
STROKE LENGTH: 82"	- <b>∃</b>	5902'-5914'	02/17/06		
PUMP SPEED, SPM: 7 SPM	#	6000,-6010,	05/10/06		Pump Change, Update rod and tubing detail PERFORATION RECORD Pump Change, Update rod and tubing leak.
		Anchor @ 6100'			9-15-88 6304'-6309' 4 JSPF 20 holes 9-20-88 6144'-6154' 4 JSPF 40 holes
		6144-6154			9-22-88 5896'-5900' 4 JSPF 16 holes 9-22-88 5902'-5914' 4 JSPF 48 holes
	SN @ 6134'KB	0144-0154			9-24-88 5378'-5394' 4 JSPF 64 holes 9-28-88 4992'-5004' 4 JSPF 48 holes
		EOT @ 6167 KI	3		9-28-88 4934'-4964' 4 JSPF 120 holes 2-17-03 6000'-6010' 4 JSPF 40 holes
					2-17-03 5875'-5880' 4 JSPF 20 holes
NEWFIELD	<b>-</b>	6304'-6309'			2-17-03 5857'-5860' 4 JSPF 12 holes 2-17-03 5827'-5832' 4 JSPF 20 holes
MEWITTE			_		2-17-03 5434'-5439' 4 JSPF 20 holes
		PBTD @ 6329'K	Т		2-17-03 5178'-5181' 4 JSPF 12 holes 2-17-03 5128'-5132' 4 JSPF 16 holes
Federal #24-33B-8-16		THOE SEALO		÷	2-17-03 5117'-5124' 4 JSPF ,28 holes
2103 FWL & 330 FSL		SHOE @ 6410'			2-17-03 4674'-4684' 4 JSPF 49 holes 2-17-03 4480'-4492' 4 JSPF 48 holes
SE/SW Section 33-T8S-R16E		TD @ 6411'KB			2-17-03 4469'-4475' 4 JSPF 24 holes
Duchesne Co, Utah					2-17-03 4430'-4434' 4 JSPF 16 holes

#### Federal #13-33B

Spud Date: 6/22/90 Initial Production: 116 BOPD, Put on Production: 10/3/90 0 MCFPD, 181 BWPD Wellbore Diagram GL: 5710' KB: 5725' FRAC JOB SURFACE CASING 29,100# 20/40, 43,000# 16/30. 5925'-5950' CSG SIZE: 8-5/8" / K-55 / 24# 5437'-5473' 47.000# 20/40, 68,000# 16/30. DEPTH LANDED: 306' KB 4966'-5045' 81,600# 20/40, 101,400# 16/30 HOLE SIZE: 12-1/4" 1758'-1780' Acidize w/3000 gal 15% HCl acid w/Cla-Sta & iron seq. Perfs broke @ 2027 psi, avg 15 bpm, 2200 psi avg press, 3850 psi max press. Run 130 balls, good ball action. CEMENT DATA: 210 sx Class "G" cmt w/2% CaCl2 1624'-1715' Pump 6000 gal 15% HCl acid w/Cla-Sta & iron seq & 225 ball sealers, very little ball action. Well was on vac @ end of freatment. PRODUCTION CASING Frac w/118 300# 20/40 sd in 508 bbls Delfa 5140'-5200' CSG SIZE: 5-1/2" / K-55 / 17# Frac. Perfs broke dn @ 3960 psi. Treated, @ ave sfc press of 6700 psi w/ave rate of 27 SET AT: 6384' bpm. ISIP: 2345 psi, 5 min: 1875 psi.
Flowback on 12/64" choke for 1-1/2 hrs & HOLE SIZE: 7-7/8" 1624'-1642' (Sqzd) died. Rec 19 BTF (est 4% of load). CEMENT DATA: Lead 180 sx Hi-Lift, tail w/445 10-0 RFC Tubing leak. Update rod and tubing details 2/5/02 CEMENT TOP AT: 970' 1668'-1678' (Sqzd) Tubing leak. Updated rod and tubing details 9/10/02 1688'-1696' (Sqzd) Frac BS and CP5 sands as follows: 2/26/03 6122'-6184' 40,735# of 20/40 sand in 330 bbls YF 125 1704'-1715' (Sqzd) fluid. Treated @ ave pressure 4193 psi W/ave rate of 17 BPM. ISIP-2349psi. Calc. **TUBING** 1758'-1780' (Sqzd) flush: 1610 gals. Actual flush: 1405 gals. SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5# 2/2703 5572'-5597' Frac LODC sands as follows: 31,897# of 20/40 sand in 288 bbls YF 125 NO. OF JOINTS: J-55 109 jts. (3365.29') fluid. Treated @ ave pressure 4621 psi W/ave rate of 17.1 BPM. ISIP-3400 psi NO. OF JOINTS: 68 jts (2186.12') Calc. flush: 1439 gals. Actual flush: 1253 TUBING ANCHOR: 2.80' @ 5566.41'KB NO. OF JOINTS: 1 its. 31.40' 2/27/03 4743'-4750' Frac PB11 sands as follows: SEATING NIPPLE: 1.10' @ 5600.71'KB 31,200# of 20/40 sand in 267 bbls YF 125 fluid. Treated @ ave pressure 3639 psi NO. OF JOINTS: 2 jts. 63.45' 4482'-4488' W/ave rate of 16.7 BPM. ISIP-2245 psi. TOTAL STRING LENGTH: EOT @ 5665.61' Calc. flush: 1240 gals. Actual flush: 888 4743'-4750' Frac GB6 sands as follows: 21,091# of 20/40 sand in 206 bbls YF 125 4966'-4971' 2/27/03 4482\*-4488\* fluid. Treated @ ave pressure 3487 psi W/ave rate of 16.8 BPM. ISIP-2122 psi 4973'-4984' Calc. flush: 1150 gals. Actual flush: 993 5017'-5028' 9/21/04 Parted Rods, updated rod & tubing detail. SUCKER RODS 5036'-5045' POLISHED ROD: 1 1/2' X 22' 5140'-5147' SUCKER RODS: 2-8', 1-4', 1-2' x 7/8" pony rods, 85-7/8" scrapered rods, 49-5191'-5200' 3/4" plain rods, 22-3/4" scrapered rods, 5-1 5/8" weight bars, 1-1 1/2" weight PERFORATION RECORD 5437'-5449'

5462'-5473'

chor @ 5566.

5572'-5578

5595'-5597'

EOT @ 5665."

5925'-5950'

PBTD @ 6289'

SHOE/TD @ 6384'

6122'-6126' 6176'-6184'

PUMP SIZE: 2-1/2"x1-1/2"x 14.5' RHAC

STROKE LENGTH: 60"

PUMP SPEED, SPM: 7 SPM

LOGS: DIGL, CDL-DSN, CBL

SN @ 5600

### NEWFIELD

#### Federal #13-33B

1972'-FSL & 652 FWL NW/SW Section 33-T8S-R16E Duchesne Co, Utah

API #43-013-31277; Lease #U-49092

		9
5925'-5950'	4 JSPF	100 holes
5462'-5473'	4 JSPF	44 holes
5437'-5449'	4 JSPF	48 holes 新聞
5036'-5045'	4 JSPF	36 holes
5017'-5028'	4 JSPF	44 holes
4973'-4984'	4 JSPF	44 holes
4966'-4971'	4 JSPF	20 holes
1758'-1780'	4 JSPF	88 holes Squeezed 4/10/94
1704'-1715'	4 JSPF	44 holes Squeezed 4/10/94
1688'-1696'	4 JSPF	32 holes Squeezed 4/10/94
1668'-1678'	4 JSPF	40 holes Squeezed 4/10/94
1624'-1642'	4 JSPF	72 holes Squeezed 4/10/94
5191'-5200'	4 JSPF	36 holes 3/11/98
5140'-5147'	4 JSPF	28 holes 3/11/98
4482'-4488'	4 JSPF	24 holes 2/25/2003
4743'-4750'	4 JSPF	28 holes 2/25/2003
5572'-5578'	4 JSPF	24 holes 2/25/2003
5595'-5597'	4 JSPF	8 holes 2/25/2003
6122'-6126'	4 JSPF	16 holes 2/25/2003
6176'-6184'	4 JSPF	32 holes 2/25/2003

Spud Date: 12/18/89 Put on Production: 2/23/90

Put on Injection: 4/19/01 GL: 5640' KB: 5653'

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24# LENGTH: 7 JTS (283') DEPTH LANDED: 300'

HOLE SIZE: 12-1/4"

CEMENT DATA: 165 skx Class "G" cmt, est ? bbls to surface

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: K-55 WEIGHT: 17#

LENGTH: 151 jts (6402') HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sks Hi-Lift & 575 sks 10-0 RFC

CEMENT TOP AT: SET AT: 6402'

#### TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5# NO. OF JOINTS: 136 jts. (4278.30') SEATING NIPPLE: 2-7/8" SN LANDED AT: 4289.30'

TOTAL STRING LENGTH: EOT @ 4297.80'

#### Federal #23-33B-8-16

Injection Wellbore Diagram Initial Production: 60 BOPD, 0 MCFD 100 BWPD

Packer @ 4298

4352'-4355'

4358'-4363'
4365'-4368'
4393'-4400'
4423'-4432'
4434'-4436'
4898'-4918'
5057'-5066'
5068'-5071'
5518'-5527'
5529'-5534'
5547'-5556'

5856'-5878'

SN @ 5865' EOT @ 5897'

PBTD @ 6308' TD @ 6402'

FRAC	ЮВ	·
1-27-90	5856'-5878'	36,000# 20/40 sand, 42,500# 16/30 sand, and 78,500# ttl sd. Avg TP 2100 psi. ISIP-2000 psi, 15 min 1817 psi.
1-30-90	5518'-5556'	36,000# 20/40 sand, 38,000# 16/30 sand and 74,000# ttl sd. Avg TP 3000 psi. ISIP-2985 psi, 15 min 2715 psi.
2-1-90	5347'-5377'	78,000# 20/40 sand, 78,000# 16/30 sand, and 156,000 ttl sd. Avg TP 1900 psi. ISIP-1750 psi, 15 min 1450 psi.
2-3-90	5057'-5071'	21,000# 20/40 SAND, 24,000# 16/30 sand and 45,000# sd ttl. Screened out 74 bbls into flush. ATP 2200 psi.
2-6-90	4898'-4918	1307 bbls w/ 51,000# 20/40 sand and 51,000# 16/30 sand. BDP 2060 @ 2 BPM Inc rate to 20 BPM. Press broke @ 3500 psi. Inc rate to 40 BPM @ 2140 psi.
4/12/00	4352'-4436'	469 bbls w/ 87,680# 20/40 sand. ATP 1900 @ 26 BPM, ISIP 2525 psi, Calc. flush: 4352 gal, Actual flush: 4158 gal.
4/18/06		5 Year MIT Completed and Submitted.
7/27/06		Workover - Marcett squeeze treatment
8/9/06		MIT completed and submitted.

#### PERFORATION RECORD

1-24-90	5856'-5878'	4 JSPF	88 holes
1-30-90	5518'-5527'	4 JSPF	36 holes
1-30-90	5529'-5534'	4 JSPF	20 holes
1-30-90	5547'-5556'	4 JSPF	36 holes
1-31-90	5347'-5377'	4 JSPF	120 hole
2-2-90	5057'-5066'	4 JSPF	36 holes
2-2-90	5068'-5071'	4 JSPF	12 holes
2-4-90	4898'-4918'	4 JSPF	80 holes
4/11/00	4352'-4355'	2 JSPF	06 holes
4/11/00	4358'-4363'	2 JSPF	10 holes
4/11/00	4365'-4368'	2 JSPF	06 holes
4/11/00	4393'-4400'	2 JSPF	14 holes
4/11/00	4423'-4432'	2 JSPF	18 holes
4/11/00	4434'-4436'	2 JSPF	04 holes

## NEWFIELD

Federal #23-33B-8-16 1653 FSL & 1888 FWL NESW Section 33-T8S-R16E Duchesne Co, Utah API #43-013-31251; Lease #U-49092

#### Federal #33-33B

Spud Date: 4/30/90 Put on Production: 8/11/90 GL: 5667' KB: 5682'

> Duchesne Co, Utah API #43-013-31268; Lease #U-49092

Wellbore Diagram

Initial Production: 57 BOPD; 0 MCFPD, 112 BWPD

#### SURFACE CASING FRAC JOB CSG SIZE: 8 5/8" 7/11/90 5586'-5665' Frac zone as follows: 83,990# 20/40 sand + 110,250# 16/30 sand in GRADE: K-55 1821 bbls fluid. Treated @ avg press of 2100 psi w/avg rate of 62.5 BPM. ISIP 2200 psi. Calc. flush: 5586 gal. Actual flush: 5418 gal. WEIGHT:24# LENGTH: 7 jts 7/13/90 5379'-5386' Frac zone as follows: DEPTH LANDED: 301' KB 18,600# 20/40 sand + 11,000# 16/30 sand in HOLE SIZE: 12 1/4" 443 bbls fluid. Treated @ avg press of 1600 psi w/avg rate of 63 BPM. ISIP 2100 psi. CEMENT DATA: 225 sxs Class "G" + 114 sxs Flocele Calc. flush: 5379 gal. Actual flush: 2865 gal. 7/17/90 4473'-4509' Frac zone as follows: 56,100# 20/40 sand + 73,750# 16/30 sand in 1253 bbls fluid. Treated @ avg press of 2300 psi w/avg rate of 40 BPM, ISIP 2300 psi. 4473'-4509' Calc. flush: 4473 gal. Actual flush: 4368 gal. 2/6/03 5850'-6228' Frac CP and BS sands as follows: PRODUCTION CASING 119,440# 20/40 sand in 863 bbls YF 125 5037'-5040' CSG SIZE: 5 1/2" fluid. Treated @ avg. pressure of 4168 psi w/avg. rate of 17.4 BPM. ISIP - 1946 psi. 5051'-5057' GRADE: K-55 Calc flush: 1522 gal. Actual flush: 1389 gal. WEIGHT: 17# 5091'-5096' 2/7/03 5701'-5709' Frac LoLODC sands as follows: LENGTH: 163 jts 24,458# 20/40 sand in 202 bbls YF 125 fluid. Treated @ avg. pressure of 4996 psi w/avg. rate of 17.6 BPM. Calc flush: 1439 DEPTH LANDED: 6400'KB 5206'-5210' HOLE SIZE: 7-7/8" gal. Actual flush: 722 gal. 5244'-5254' CEMENT DATA: 155 sxs SilicaLT + 520 sxs Howco 2/7/03 5534'-5580' Frac UpLODC sands as follows: 74,500# 20/40 sand in 550 bbls YF 125 CEMENT TOP AT: 2050' per CBL fluid. Treated @ avg. pressure of 3725 psi w/avg. rate of 17.8 BPM. ISIP - 1798 psi. 5346'-5349' Calc flush: 1424 gal. Actual flush: 1277 gal. 5357'-5367' 2/8/03 5206'-5367' Frac B1, B2 and UpA1 sands as follows: 65,500# 20/40 sand in 474 bbls YF 125 TUBING 5379'-5386 fluid. Treated @ avg. pressure of 3512 psi w/avg. rate of 17.3 BPM. ISIP - 2189 psi. Calc flush: 1348 gal. Actual flush: 1132 gal. SIZE/GRADE/WT.: 2 7/8"/J-55/6.5# NO. OF JOINTS: 197 jts (6151.11') 5534'-5537' ĺ 2/8/03 5037'-5096' Frac D3 and C sands as follows: TUBING ANCHOR: 6166.11' KB 22,468# 20/40 sand in 204 bbls YF 125 5544'-5550' NO. OF JOINTS: 1 jt (31.06') fluid. Treated @ avg. pressure of 3351 psi 5556'-5561' w/avg. rate of 17.9 BPM. SEATING NIPPLE: 2 7/8"x1.10" 5566'-5580' 5/8/03 Pump Change. Update rod and tubing detail. SN LANDED AT: 6199.97'KB 5586'-5605' 10/12/05 Pump Change (Lower EOT) NO. OF JOINTS: 2 its (62.43') 5609'-5665' Pump Change (Lower EOT) 11/14/05 TOTAL STRING LENGTH: EOT @ 6263.95.' KB 12/08/05 Tubing Leak. Detail tubing and rod update. 5701'-5709' PERFORATION RECORD SUCKER RODS 7/10/90 5609'-5665' 4 JSPF 224 holes 5850'-5852' POLISHED ROD: 1 1/2"x22' polished rod 7/10/90 5586'-5605' 4 JSPF 76 holes 7/12/90 5379'-5386' 4 JSPF 28 holes SUCKER RODS: 4-1 1/2" weight rods, 50 % guided, 72 % guided, 30 % guided, 7/14/90 4473'-4509' 4 JSPF 144 holes 5932'-5940' 89 7/8 guided, 1-6', 1-4' x 7/8 pony 2/4/03 6225'-6228' 4 JSPF 12 holes 5946'-5950' PUMP SIZE: 2 1/2" x 1 1/2" x 17' Macgyver 2/4/03 6190'-6204' 4 ISPF 56 holes 5983'-5990' 2/4/03 6177'-6180' 4 JSPF 12 holes STROKE LENGTH: 52" 6163'-6168' 2/4/03 4 JSPF 36 holes 2/4/03 6154'-6158' 4 JSPF 36 holes PUMP SPEED, SPM: 7 SPM Anchor @ 6114' 2/4/03 5983'-5990' 4 JSPF 28 holes 2/4/03 5946'-5950' 4 JSPF 48 holes SN @ 6199' 2/4/03 5932'-5940' 4 JSPF 48 holes 6154'-6158' 2/4/03 5850'-5852' 4 JSPF 8 holes 6163'-6168' 2/4/03 5701'-5709' 4 ISPF 32 holes 2/4/03 5566'-5580' 4 JSPF 76 holes 6177'-6180' 2/4/03 5556'-5561' 4 JSPF 76 holes 6190'-6204' 2/4/03 5544'-5550' 4 JSPF 36 holes EOT @ 6212' 2/4/03 5534'-5537' 4 JSPF 36 holes 5357'-5367' 2/4/03 4 JSPF 52 holes 6225'-6228' 52 holes 2/4/03 5346'-5349' 4 JSPF 2/4/03 5244'-5254' 4 JSPF 56 holes 2/4/03 5206'-5210' 4 ISPF 56 holes Anlana Top of Fill @ 6290' 2/4/03 5091'-5096' 4 JSPF 20 holes 2/4/03 5051'-5057' 4 JSPF 36 holes PBTD @ 6315' 2/4/03 5037'-5040' 4 JSPF 36 holes Federal #33-33B SHOE/TD @ 6400' 1857 FSL & 1883 FEL NWSE Section 33-T8S-R16E

#### Federal #14-33B

Wellbore Diagram

Initial Production: 300 BOPD, 200 MCFD 92 BWPD

FRAC JOB

#### GL: 5651' KB: 5663' SURFACE CASING

Put on Production: 9-6-89

Spud Date: 6-7-89

CSG SIZE: 9-5/8"
GRADE: K-55
WEIGHT: 36#
LENGTH: ?
DEPTH LANDED: 300

DEPTH LANDED: 300' HOLE SIZE: 12-1/4"

CEMENT DATA: 225 skx Class "G"cmt, est? bbls to surface

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: K-55, N-80 WEIGHT: 17# LENGTH: ? HOLE SIZE: 7-7/8"

CEMENT DATA: 521 sks Hi-Lift & 502 Class "G"

CEMENT TOP AT: 700' SET AT: 6398'

#### TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#

NO. OF JOINTS: ? jts
TUBING ANCHOR: 4791'
SEATING NIPPLE: 2-7/8"
TOTAL STRING LENGTH: ?
SN LANDED AT: ?'

#### SUCKER RODS

POLISHED ROD:

SUCKER RODS:

TOTAL ROD STRING LENGTH:

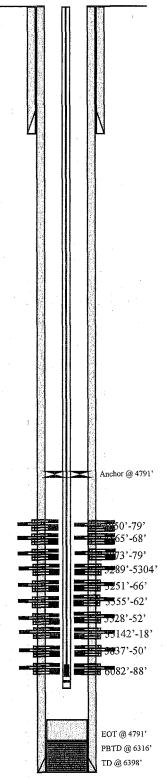
PUMP NUMBER:

PUMP SIZE:

STROKE LENGTH:

PUMP SPEED, SPM:

LOGS: DLL-Micro, CDL-DSN, CBL-Variable Density



		13: · § 1.
7-31-89	6082'-6088'	35,750# 20/40 sand, 21,450# 16/30 sand, 719 bbls.
8-1-89	5837'-5850'	42,250# 20/40 sand, 25,350# 16/30 sand, 761 bbls. Avg rate of 37 BPM. ISIP-2000 psi, 15 min 1770 psi.
8-4-89	5514'-5562'	81,250# sand, 48,750# 16/30 sand, 1462 gals. Avg rate of 45 BPM. ISIP-2400 psi, 15 min 2250 psi.
8-10-89	5251'-5304'	65,000# 20/40 sand, 35,000# 16/30 sand, and 1175 bbls. Avg rate of 45 BPM w/avg press of 2400 psi. ISIP-2200 psi, 15 min 1850 psi.
8-13-89	4850'-4879'	48,750# 20/40 sand, 21,250# 16/30 sand, 862 bbls. ISIP-2400 psi., 15 min 1500 psi. Ave rate of 42 BPM.

#### PERFORATION RECORD

7-30-89	6082'-6088'	4 JSPF	24 holes
8-1-88	5837'-5850'	4 JSPF	52 holes
8-3-88	5514'-5518'	4 JSPF	16 holes
8-3-88	5528'-5552'	4 JSPF	96 holes
8-3-88	5555'-5562'	4 JSPF	28 holes
8-8-88	5251'-5266'	4 JSPF	60 holes
8-8-88	5289'-5304'	4 JSPF	60 holes
8-13-88	4850'-4862'	4 JSPF	48 holes
8-13-88	4865'-4868'	4 JSPF	12 holes
8-13-88	4873'-4879'	4 JSPF	24 holes



#### Inland Resources Inc.

#### Federal #14-33B

500 FWL 600 FSL

SWSW Section 33-T8S-R16E

Duchesne Co, Utah

API #43-013-31229; Lease #U-49092

#### Federal #34-33B

Spud Date: 4/24/90

ut on Injection: 1/11/95 GL: 5683' KB: 5696' SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT:24# LENGTH: ?

DEPTH LANDED: 305' GL

HOLE SIZE:?

CEMENT DATA: 225 sxs cmt

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# LENGTH: 6392' DEPTH LANDED: ? HOLE SIZE: ? CEMENT DATA: 734 sks cement CEMENT TOP AT: ?

#### TUBING

SIZE/GRADE/WT.: 2-7/8" NO. OF JOINTS: ? Landed @:5969' TUBING ANCHOR:? SEATING NIPPLE:? TOTAL STRING LENGTH? SN LANDED AT:?

#### SUCKER RODS

POLISHED ROD: SUCKER RODS: TOTAL ROD STRING LENGTH: PUMP NUMBER: PUMP SIZE: STROKE LENGTH: PUMP SPEED, SPM: LOGS: Cal, CDL-CSN-DLL-MGRD

#### Inland Resources Inc.

#### Federal #34-33B

614 FSL 1885 FEL

SWSE Section 33-T8S-R16E

Duchesne Co, Utah

API #43-013-31269; Lease #U-49092

Injection Diagram

Initial Production: 580 BOPD, 0 MCFPD, 249 BWPD

FRAC JOB	and a
5879'-5925'	50,000# 20/40 sand 45,000 # 16/30 sand, 41,300 gal gel
5682'-5773'	30,600# 20/40 sand 46,400# 16/30 sand, 824 bbls fluid
5564'-5578'	$30,100\#\ 20/40\ sand\ 39,800\#16/30\ sand\ ,$ 668 bbls fluid
5119'-5266'	31,000# 20/40 sand 40,900# 16/30 sand,

729 bbls fluid 4948'-5049' 65,100# 20/40 sand 46,100# 16/30 sand

#### PERFORATION RECORD

5879'-5925'	4 JSPF	? holes
5682'-5773'	4 JSPF	? holes
5564'-5578'	4 JSPF	? holes
5119'-5266'	4 JSPF	? holes
4948'-5049'	4 JSPF	? holes

Packer @ 4920'

PBTD @ 6314' TD @ 6400'

#### Federal #44-33B

Spud Date: 4/25/90 Put on Production: 7/25/90 GL: 5696' KB: 5711'

Wellbore Diagram

Initial Production: 80 BOPD, 0 MCFPD, 96 BWPD

#### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT:24# LENGTH: ?

DEPTH LANDED: 300' GL

HOLE SIZE:12-1/4"

CEMENT DATA: 225 sxs cmt

#### FRAC JOB

Anchor @ 4932'

4960'-4965'

**4983'-4986'** 

5024'-5036'

5272'-5294'

5411'-5421'

= 5702'-5724'

5864'-5873' EOT @ 5912'

Top of Fill @ 6188'

PBTD @ 6213'

SHOE/TD @ 6385'

5864'-5873' 28,240# 20/40 sand, 37,250# 16/30 sand 5702'-5724' 37,470# 20/40 sand, 49,315#16/30 sand 26,250# 20/40 sand, 34,620# 16/30 sand 5411'-5421' 37,410# 20/40 sand, 49,315# 16/30 sand 5272'-5294' 48,570# 20/40 sand, 63,885# 16/30 sand 4960'-5036' 8/3/04 Parted rods. Update rod and tubing detail.

#### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# LENGTH: ? jts. (6385') DEPTH LANDED: ? HOLE SIZE: 7-7/8" CEMENT DATA: 955 sks cement CEMENT TOP AT: Est @ 2650'

#### **TUBING**

SIZE/GRADE/WT .: 2-7/8"/6.5#/J-55

NO. OF JOINTS: 155 jts. TUBING ANCHOR: 4932' NO. OF JOINTS: 30 jts. SEATING NIPPLE: ? SN LANDED AT: 5879' NO. OF JOINTS: 1 jt.

TOTAL STRING LENGTH: 5912'

#### SUCKER RODS

POLISHED ROD: 1-1/2" x 22

SUCKER RODS: 1-2', 2-4' x 7/8" pony rods, 93 - 7/8" scrapered rods, 113 -3/4" plain rods, 21-3/4" scrapered rods , 6-1 ½" weight bars

PUMP SIZE: 2-1/2" x 1-1/2" x 14.5 RHAC

STROKE LENGTH: 86" PUMP SPEED, SPM: 7 SPM

LOGS: DIGL, CDL/DSN, CBL/VDL

#### PERFORATION RECORD

5864'-5873' 4 JSPF 36 holes 5702'-5724' 4 JSPF 88 holes 5411'-5421' 4 JSPF 40 holes 5272'-5294' 4 JSPF 88 holes 4960'-5036' 4 JSPF 36 holes



### Inland Resources Inc.

666 FSL & 660 FEL

SESE Section 33-T8S-R16E

Duchesne Co, Utah

API #43-013-31270; Lease #U-49092

#### Federal #11-4G-9-16

Spud Date: 12/21/89 Put on Production: 3/21/90 GL: 5750' KB: 5761'

800 FWL & 660 FNL

NWNW Section 4-T9S-R16E Duchesne Co, Utah API #43-013-31250; Lease #U-30096 Wellbore Diagram

Initial Production: 78 BOPD, 0 MCFD

 $130 \, \mathrm{BWPD}$ 

#### FRAC JOB SURFACE CASING 2-15-90 5847'-5862' 35,000# 20/40 sand, 53,000# 16/30 sand, CSG SIZE: 8-5/8" and 88,000# ttl sd. Avg TP 2300 psi. GRADE: K-55 ISIP-2330 psi. WEIGHT: 24# Screened out w/42,000# 20/40 in 2-17-90 5515'-5560' LENGTH: 7 JTS formation. Job scheduled from 180,000#, Casing Shoe @ 296' cannot maintain rate. Avg TP 3700 psi. ISIP-2700 psi, 15 min 1870 psi. DEPTH LANDED: 296' HOLE SIZE: 12-1/4" 70,000# 20/40 sand, 08,000# 10.55 and 138,000 sd ttl. Avg TP 2600 psi. 70,000# 20/40 sand, 68,000# 16/30 sand, 2-21-90 5360'-5435' CEMENT DATA: 165 Class "G"cmt, est ? bbls to surface ISIP-1800 psi, 15 min 940 psi. 2-24-90 5222'-5019' 41,000# 16/30 sand. Avg TP 2900 psi, 15 min 1150 psi. 48,000# 20/40 sand. Sand master broke 2-27-90 4924'-4946 down & couldn't pump 16/30 sand. Avg TP 2550 psi. ISIP-1770 psi, 15 min 1500 PRODUCTION CASING Frac B.5 sands as follows: 2-05-03 5156'-5162' CSG SIZE: 5-1/2" 20,307# 20/40 sand in 198 bbls Viking I-25 fluid. Treated @ avg. pressure of 3953 psi w/avg. rate of 14.5 BPM. ISIP - 2695 GRADE: K-55 WEIGHT: 17# Cement top @ 1430' psi. Calc. flush: 1307 gal. Actual flush: 1218 gal. LENGTH: 151 jts HOLE SIZE: 7-7/8" 2-05-03 4440'-4476' Frac GB6 sands as follows: 74,499# 20/40 sand in 564 bbls Viking I-CEMENT DATA: 317 sks Hi-Lift & 595 sks 10-0 RFC 25 fluid. Treated @ avg. pressure of 2176 psi w/avg. rate of 24.6 BPM. ISIP - 2240 psi. Calc. flush: 4440 gal. Actual flush: CEMENT TOP AT: 1430' SET AT: 6453' 4242 gal. Pump Change. Updated rod and tubing 02-20-06 TUBING SIZE/GRADE/WT: 2-7/8", J-55, 6.5# NO. OF JOINTS: 185 jts (5800.04') TUBING ANCHOR: 5813.04' KB NO. OF JOINTS: 2 its (62,73') SEATING NIPPLE: 2-7/8" (1.10') 4440'-4448' SN LANDED AT: 5878.57' 4460'-4466 NO. OF JOINTS: 1 jt (31.35') 4468'-4476' TOTAL STRING LENGTH: EOT @ 5911.47' w/13' KB 4924'-4946 5013'-5019 5108'-5113' 5156'-5162' SUCKER RODS PERFORATION RECORD 5222'-5230' POLISHED ROD: 1-1/2"x22' SUCKER RODS: 1-7/8" plain rods, 91-7/8" scrapered rods, 4-3/4" scrapered 5360'-5370' 5847'-5862' 4 JSPF 60 holes 2-13-90 rods, 122-3/4" plain rods, 10-3/4" scrapered rods 2-16-90 5515'-5560' 180 holes 5386'-5393' 2-20-90 5360'-5370' 4 JSPF 40 holes PUMP SIZE: 2-1/2" X 1-3/4" X 12 X 16' RHAC 2-20-90 2-20-90 5386'-5393' 4 JSPF 28 holes STROKE LENGTH: 62" 5420'-5435' 5420'-5435' 4 JSPF 60 holes 5222'-5230' 4 JSPF 2-22-90 PUMP SPEED, SPM: 7 SPM 2-22-90 5108'-5113' 5013'-5019' 4 JSPF 20 holes 5515'-5560' LOGS: DIL/CDL/DSN, CBL/VDL/CLL 2-22-90 4 JSPF 24 holes Anchor @ 5813' 4924'-4946' 2-26-90 4 JSPF 88 holes 2-04-03 5156'-5162' 4 JSPF 2-04-03 4468'-4476' 4 JSPF 32 holes 5847'-5862' 4460'-4466' 2-04-03 4 JSPF 24 holes 4440'-4448' 32 holes 4 JSPF 2-04-03 SN @ 5879' EOT @ 5911' NEWFIELD PBTD @ 6329' Federal #11-4G-9-16

TD @ 6453'

### Federal #21-4G

Injection Diagram

Initial Production: 349 BOPD, 0 MCFD

### 57 BWPD

FRAC J	ОВ	
8-10-90	6108'-6117'	40,720# 20/40 sand, 542 bbls. Avg press- of 2200 psi w/avg rate of 25 BPM. ISIP- 2100 psi, 15 min 1880 psi.
8-12-90	5794'-5839'	32,020# 20/40 sand, 42,265# 16/30 sand, and 849 bbls. ISIP-2030 psi, 5 min 1850 psi.
8-14-90	5398'-5414'	37,400# 20/40 sand, 49,300# 16/30 sand, and 885 bbls. Avg TP 2550 psi w/avg rate of 35 BPM. ISIP-2000 psi, 15 min

1650 psi. 8-17-90 4914'-4982' 60,800# 20/40 sand, 80,100# 16/30 sand,

and 1303 bbls. Avg TP 2400 psi w/avg press of rate of 50 BPM.

### GL: 5715' KB: 5730' SURFACE CASING

Put on Injection: 1-11-95

Spud Date: 6-2-90

CSG SIZE: 8-5/8"
GRADE: K-55
WEIGHT: 24#
LENGTH: 7 JTS
DEPTH LANDED: 305'
HOLE SIZE: 12-1/4"

CEMENT DATA: 210 sx Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 17# LENGTH: ? jts HOLE SIZE: 7-7/8"

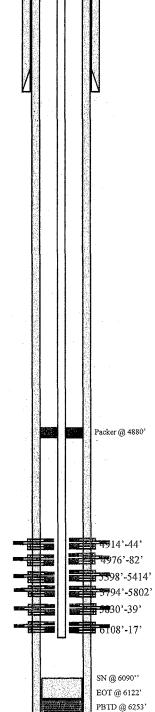
CEMENT DATA: 145 sx Hi-Lift & 530 sx 10-0 RFC

CEMENT TOP AT: 1150' SET AT: 6339'

### TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#

NO. OF JOINTS: 197 jts
TUBING ANCHOR: 4877'
SEATING NIPPLE: 2-7/8"
TOTAL STRING LENGTH: ?
SN LANDED AT: 6090'



TD @ 6350'

### PERFORATION RECORD

8-9-90	6108'-6117'	4 JSPF	36 holes
8-11-90	5794'-5802'	4 JSPF	32 holes
8-11-90	5830'-5839'	4 JSPF	36 holes
8-13-90	5398'-5414'	4 JSPF	64 holes
8-15-90	4914'-4944'	4 JSPF	120 holes
8-15-90 8-15-90	4976'-4982'	4 JSPF 4 JSPF	24 holes



### Inland Resources Inc.

### Federal #21-4G

1958 FWL 760 FNL

NENW Section 4-T9S-R16E

Duchesne Co, Utah

API #43-013-31272; Lease #U-30096

### Federal #31-4G-9-16

Spud Date: 4-27-89 Put on Production: 6-7-89 GL: 5713' KB: 5729'

Wellbore Diagram

Initial Production: 102 BOPD, 0 MCFD

15 BWPD

### SURFACE CASING

CSG SIZE: 9-5/8" GRADE: K-55 WEIGHT: 36# LENGTH: 8 JTS DEPTH LANDED: 300'

HOLE SIZE: 12-1/4"

CEMENT DATA: 165 skx Class "G" cmt, est 8 bbls to surface

### FRAC JOB

5-18-89 5386'-5396' 38,500# 20/40 sand, 41,050#016/30 sand, and 810 bbls. Avg TP 1700 psi w/avg rate of 35 BPM. ISIP-1800 psi. 49,000# 20/40 sand, 50,800# 16/30 sand, 5-23-89 4950'-4961' and 1002 bbls. Avg TP 2000 psi w/avg rate of 43 BPM. ISIP - 1900 psi. 118.300# 20/40 sd in 482 bbls Delta Frac. 3-05-98 5114'-5135' Treated @ ave sfc press of 6850 psi w/ave rate of 27.3 bpm. ISIP: 1765 psi. Cale flush: 1303 gal. Actual flush: 1259 gal. 04/19/07 Parted Rods Updated rod & tubing details.

### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 17# LENGTH: 132 jts SET AT: 6475' HOLE SIZE: 7-7/8"

CEMENT DATA: 260 sks Hi-Lift & 850 sks Class "G"

CEMENT TOP AT: 2300'

SIZE/GRADE/WT: 2-7/8", J-55, 6.5# NO. OF JOINTS: 166 jts (5280.59') TUBING ANCHOR: 5292.59' KB NO. OF JOINTS: 1 jt (31.66) SEATING NIPPLE: 2-7/8" SN LANDED AT: 5327.05' KB NO. OF JOINTS: 1 perf sub (38.75') NO. OF JOINTS: 1 jt

TOTAL STRING LENGTH: EOT @ 5367.35' KB

### SUCKER RODS

POLISHED ROD: 1-1/2"x22'

SUCKER RODS: 2- 8', 1- 2' x 7/8" pony rods; 18- 7/8" scraper rods, 89- 7/8" plain rods; 64-3/4" plain rods, 36- 3/4" guided rods; 5- 1  $\frac{1}{2}$ " wt bars

PUMP SIZE: 2-1/2"x1-1/2"x12'x16' RHAC

STROKE LENGTH: 74" PUMP SPEED, SPM: 6

LOGS: DIL, SFL, SP, GR, FDC, CNL, GR, Cal., CBL, GR

### PERFORATION RECORD

5-17-89 4 JSPF 40 holes 5386'-5396' 5-20-89 4950'-4961' 4 JSPF 44 holes 3-04-98 5114'-5118' 4 JSPF 16 holes 3-04-98 5131'-5135' 4 JSPF 16 holes



### Inland Resources Inc.

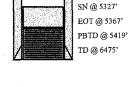
### Federal #31-4G-9-16

500 FNL & 1900 FEL

NWNE Section 4-T9S-R16E

Duchesne Co, Utah

API #43-013-31228; Lease #U-30096



4950'-61'

5114'-18'

5131'-35'

Anchor @ 5293'

5386'-96'

### WELLS DRAW FED. G-4-9-16

Spud Date: 08/16/07 Put on Production: 10/04/07

GL: 5719' KB: 5731'

Wellbore Diagram

Cement Top @ 120'

Initial Production: MCFD, BWPD

BOPD,

### SURFACE CASING

CSG SIZE: 8-5/8" GRADE: J-55 WEIGHT: 24#

LENGTH: 7 jts. (296.61') DEPTH LANDED: 308.46' KB

HOLE SIZE:12-1/4"

CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

### FRAC JOB 10/1/07 5649-5658

10/1/07 5236-5272

10/1/07 5131-5137

10/107 4977-5039

10/1/07 4475-4503

4475-4481

4496-45033

4977-4984' 5032-5039

5131-5137

5238-5247

Anchor @ 5412'

5432-5457

EOT @ 5509' PBTD @ 6334'

SHOE @ 6386'

TD @ 6406'

Frac A1 sands as follows:

105895# 20/40 sand in 805 bbls Lightning 17 frac fluid. Treated @ avg press of 1932 ps w/avg rate of 24.7 BPM. ISIP 2103 psi. Calc flush: 5647 gal. Actual flush: 4956 gal.

### Frac B1 sands as follows:

25043# 20/40 sand in 368 bbl Lightning 17 frac fluid. Treated @ avg press of 1845 psi w/avg rate of 24.7 BPM. ISIP 1852 psi. Calc flush: 5234 gal. Actual flush: 4788 gal.

Frac C sands as follows: 15827# 20/40 sand in 281 bbls Lightning 17 frac fluid. Treated @ avg press of 2403 psi w/avg rate of 24.8 BPM. ISIP 2515 psi. Calc flush: 5129 gal. Actual flush: 4662 gal.

### Frac D2 & D1 sands as follows:

66384# 20/40 sand in 544 bbls Lightning 17 frac fluid. Treated @ avg press of 2161 psi w/avg rate of 24.7 BPM. ISIP 2193 psi. Calc flush: 4975 gal. Actual flush: 4452 gal.

### Frac GB6 sands as follows:

Frac GBb sands as follows. 32962# 20/40 sand in 357 bbls Lightning 17 frac fluid. Treated @ avg press of 1760 psi w/avg rate of 24.8 BPM. ISIP 1916 psi. Calc flush: 4473 gal. Actual flush: 4368 gal.

### PRODUCTION CASING

CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5#

LENGTH: 162 jts. (6386.28') DEPTH LANDED: 6386.03' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 350 sxs Prem. Lite II mixed & 480 sxs 50/50 POZ.

### TUBING.

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5# NO. OF JOINTS: 175 jts (5399.99') TUBING ANCHOR: 5411.99' KB NO. OF JOINTS: 1 its (30.73') SEATING NIPPLE: 2-7/8" (1.10') SN LANDED AT: 5445.52' KB NO. OF JOINTS: 2 jts (61.53')

TOTAL STRING LENGTH: EOT @ 5508.60' KB

### SUCKER RODS

POLISHED ROD: 1-1/2" x 26' SM polished rods

SUCKER RODS:1-4' X 7/8" pony rods, 213-7/8"" scrapered rods, 4-1 1/2" weight bars

PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16x 20' 'RHAC

STROKE LENGTH: 144" PUMP SPEED, 5 SPM:

SN 5446'

### PERFORATION RECORD

5432-5457	4 JSPF	100 holes
5238-5247	4 JSPF	36 holes
5131-5137	4 JSPF	24 holes
5032-5039	4 JSPF	28 holes
4977-4984	4 JSPF	28 holes
4496-4503	4 JSPF	28 holes
4475-4481'	4 JSPF	24 holes

### NEWFIELD

### WELLS DRAW FED. G-4-9-16

1994'FNL & 1964' FWL

SW/NW Section 4-T9S-R16E Duchesne Co, Utah

API #43-013-33518; Lease # UTU-30096

### Wells Draw #6-4-9-16

Spud Date: 1/7/98 Put on Production: 2/6/98 GL: 5721' KB: 5733'

Duchesne Co, Utah
API #43-013-31972; Lease #U-30096

Wellbore Diagram

Initial Production: 84 BOPD, 94 MCFD 8 BWPD

FRAC JOB SURFACE CASING 1/30/98 5511'-5569 Frac LDC sands as follows: CSG SIZE: 8-5/8" 120,300# 20/40 sd in 582 bbls Delta frac. GRADE: K-55 Breakdown @ 2640 psi. Treated @ avg press of 1980 psi w/avg rate of 34.9 BPM. ISIP - 2411 WEIGHT: 24# psi, 5 min 2168 psi. Flowback on 12/64 ek for LENGTH: 7 jts 4-1/2 hrs & died. DEPTH LANDED: 290 2/1/98 5328'-5336' Frac A sands as follows: HOLE SIZE: 12-1/4" 81,300 # sd in 459 bbls Delta frac. Breakdown @ 2501 psi. Treated @ avg press of 3500 psi w/avg rate of 25 BPM. ISIP - 2094 CEMENT DATA: 120 sxs Premium, est 6 bbls to surface psi, 5 min 3041 psi. Flowback on 12/64 ck for 2-1/2 hrs & died. Frac D/C sands as follows: 2/04/98 4872'-5039 113,300 # 20/40 sd in 556 bbls Delta frac. Breakdown @ 1109 psi. Treated w/avg pres of 1600 psi w/avg rate of 30 BPM. ISIP - 2094 PRODUCTION CASING psi, 5 min 2026 psi. Flowback on 12/64 ck 2-1/2 hrs & died. CSG SIZE: 5-1/2" GRADE: J-55 1/2/02 Pump change. Update rod and tubing details. WEIGHT: 15.5# Tubing leak. Update rod and tubing details. 9/5/02 LENGTH: 140 jts 5997' 10/24/02 4872'-4889' Refrac D1 sands as follows: HOLE SIZE: 7-7/8" 50,000# 20/40 sand in 203 bbls Viking I-25 CEMENT DATA: 380 sxs Hibond & 365 sxs Thixotropic fluid. Treated @ avg pressure of 2280 psi w/avg rate of 24.6 BPM. ISIP - 2625 psi. Calc. CEMENT TOP AT: 4414'-4428' flush: 4872 gals. Actual flush: 4869 gals. SET AT: 6007' Frac GB6 sands as follows: 10/24/02 4414'-4428' 50,000# 20/40 sand in 214 bbls Viking I-25 fluid. Treated @ avg pressure of 2013 psi w/avg rate of 22.7 BPM. ISIP - 2080 psi. Calc. TUBING flush: 4414 gals. Actual flush: 4661 gals. SIZE/GRADE/WT: 2 7/8" / M-50 / 6.5# 3/1/03 Pump change. Update rod detail. Tubing Leak. Update tubing and rod detail, Pump Change. Update rod & tubing details. NO. OF JOINTS: 152 jts. (4729.31') 8/02/04 03/28/07 NO. OF JOINTS: 19 jts. (613.81') J-55 4872'-4874' Pump Change. Update rod & tubing details-10/09/07 TUBING ANCHOR: 5355.12' 4878'-4889 NO. OF JOINTS: 1 jt. (33.03') SEATING NIPPLE: 27/8" (1.10') 4933'-4940' SN LANDED AT: 5390.95' 4942'-4944' NO. OF JOINTS: 2 jts. (62.58') M-50 tbg TOTAL STRING LENGTH: EOT @ 5455.08' KB 5028'-5031' 5034'-5039' SUCKER RODS POLISHED ROD: 1 1/2" X 22' 5328'-5336' SUCKER RODS: 6-1 1/2" weight rods; 25-3/4" scrapered rods, 89-3/4" plain PERFORATION RECORD rods, 95-3/4" scrapered rods, 1-6', 1-4', x 3/4" pony rods Anchor @ 5355' 1-29-98 5511'-5517' 4 JSPF 24 holes PUMP SIZE: 2 1/2" X 1 1/2" x 12' X 15.5' RHAC 1-29-98 5522'-5532' 4 JSPF 40 holes SN @ 5391' STROKE LENGTH: 54" 5549'-5569' 1-29-98 4 JSPF 80 holes 5328'-5336' 32 holes 1-31-98 PUMP SPEED, SPM: 4 SPM EOT @ 5455 2-03-98 4872'-4874' 4878'-4889' 4 ISPF 8 holes LOGS: DIGL/SP/GR/CAL (6022'-300') 2-03-98 4 JSPF 44 holes 2-03-98 4933'-4940' 4 JSPF 28 holes (5984'-3000') 5511'-5517' DSN/SDL/GR 4942'-4944' 4 JSPF 8 holes 2-03-98 2-03-98 5028'-5031' 4 JSPF 12 holes 5034'-5039' 4 JSPF 5522'-5532' 2-03-98 20 holes 10-24-02 4414'-4428' 4 JSPF 56 holes 5549'-5569' Top of fill @ 5876' NEWFIELD PBTD @ 5962' SHOE @ 6008' Wells Draw #6-4-9-16 TD @ 6025' 1980' FNL & 1980' FWL SENW Section 4-T9S-R16E

Athanet F 1 of 4

> West Coast Region 5125 Boylan Street Bakersfield, CA 83308 (661) 325-4138 Lab Team Leader - Sheila Hernandez (432) 495-7240

### **Water Analysis Report by Baker Petrolite**

Company: NEWFIELD EXPLORATION Sales RDT: 31706

Region: WESTERN REGION Account Manager: RANDY HUBER (435) 823-0023

Area: MYTON, UT Sample #: 43437

Lease/Platform: WELLS DRAW Analysis ID #: 79484

Entity (or well #): 24-33B-8-16 Analysis Cost: \$80.00

Sample Point: WELLHEAD

UNKNOWN

Formation:

Summ	nary		Aı	nalysis of Sa	ample 43437 @ 75 °	F	
Sampling Date:	02/19/08	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	02/26/08	Chloride:	2795.0	78.84	Sodium:	2114.4	91.97
Analyst:	LISA HAMILTON	Bicarbonate:	587.0	9.62	Magnesium:	6.0	0.49
TDC /mm/l on m/m2\/	5702 G	Carbonate:	123.0	4.1	Calcium:	11.0	0.55
TDS (mg/l or g/m3):	5702.6	Sulfate:	46.0	0.96	Strontium:	2.0	0.05
Density (g/cm3, tonno Anion/Cation Ratio:	e/m3): 1.004 1.0000001	Phosphate:			Barlum:	2.0	0.03
Anion/Cation Ratio:	1.0000001	Borate:			Iron:	0.9	0.03
		Silicate:			Potassium:	15.0	0.38
					Aluminum:		
Carbon Dioxide:		Hydrogen Sulfide:			Chromium:		
Oxygen:		pH at time of sampling:			Copper:		
Comments:				0.50	Lead:		
		pH at time of analysis:		8.52	Manganese:	0.300	0.01
		pH used in Calculation:		8.52	Nickel:		
				)			

Condi	tions		Values C	Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl								
Temp	Gauge Press.	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> 0			Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>	
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.53	5.92	-3.22	0.00	-3.28	0.00	-2.19	0.00	0.91	1.05	0.03
100	0	0.52	5.92	-3.22	0.00	-3.23	0.00	-2.17	0.00	0.76	1.05	0.05
120	0	0.52	5.92	-3.22	0.00	-3.14	0.00	-2.14	0.00	0.65	1.05	0.09
140	0	0.52	5.92	-3.21	0.00	-3.04	0.00	-2.10	0.00	0.55	0.70	0.14

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

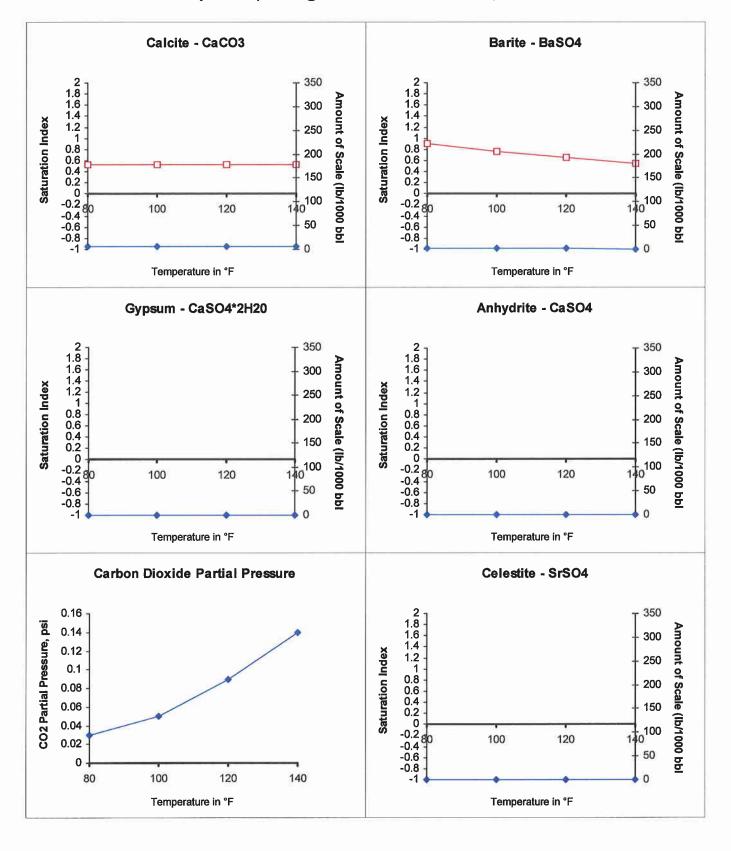
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Athahut F 2 of 4

### **Scale Predictions from Baker Petrolite**

Analysis of Sample 43437 @ 75 °F for NEWFIELD EXPLORATION, 02/26/08



A Hadret F

West Coast Region 5125 Boylan Street Bakersfield, CA 83308 (661) 325-4138 Lab Team Leader - Sheila Hernandez (432) 495-7240

### Water Analysis Report by Baker Petrolite

Company:

**NEWFIELD EXPLORATION** 

Sales RDT:

31706

Region:

WESTERN REGION

Account Manager: RANDY HUBER (435) 823-0023

Area:

MYTON, UT

Sample #:

409361

Lease/Platform:

SOUTH WELLS DRAW

Analysis ID #:

78571

Entity (or well #):

**INJECTION SYSTEM** 

Analysis Cost:

\$80.00

Formation:

UNKNOWN

Sample Point:

TRIPLEX SUCTION

Sum	mary		Ana	lysis of Sa	mple 409361 @ 75 °	F	
Sampling Date:	01/20/08	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	01/25/08	Chloride:	2313.0	65.24	Sodium:	1726.0	75.08
Analyst:	STACEY SMITH	Bicarbonate:	678.0	11.11	Magnesium:	19.0	1.56
TDO (	4924.9	Carbonate:	0.0	0.	Calcium:	39.0	1.95
TDS (mg/l or g/m3):		Sulfate:	129.0	2.69	Strontium:	2.5	0.06
Density (g/cm3, ton	•	Phosphate:			Barium:	7.0	0.1
Anion/Cation Ratio:	1.0000001	Borate:			fron:	0.3	0.01
		Silicate:			Potassium:	11.0	0.28
÷					Aluminum:		
Carbon Dioxide:		Hydrogen Sulfide:			Chromium:		
Oxygen:					Copper:		
		pH at time of sampling:	- 4		Lead:		
Comments:		pH at time of analysis:		8.13	Manganese:	0.060	0,
		pH used in Calculatio	n:	8.13	Nickel:		
	•						1

Cond	itions		Values C	alculated	at the Give	on Conditions - Amounts of Scale in lb/1000 bbl						
Temp	Gauge Press.		ilcite aCO <sub>3</sub>	Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> 0		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>		CO <sub>2</sub> Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.72	14.65	-2.18	0.00	-2.25	0.00	-1.63	0.00	1.92	4.19	0.07
100	0	0.76	16.74	-2.19	0.00	-2.19	0.00	-1.61	0.00	1.78	4.19	0.1
120	0	0.81	19.18	-2.19	0.00	-2.11	0.00	-1.58	0.00	1.66	4.19	0.16
140	- 0	0.86	21.62	-2.18	0.00	-2.01	0.00	-1.54	0.00	1.57	4.19	0.24

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

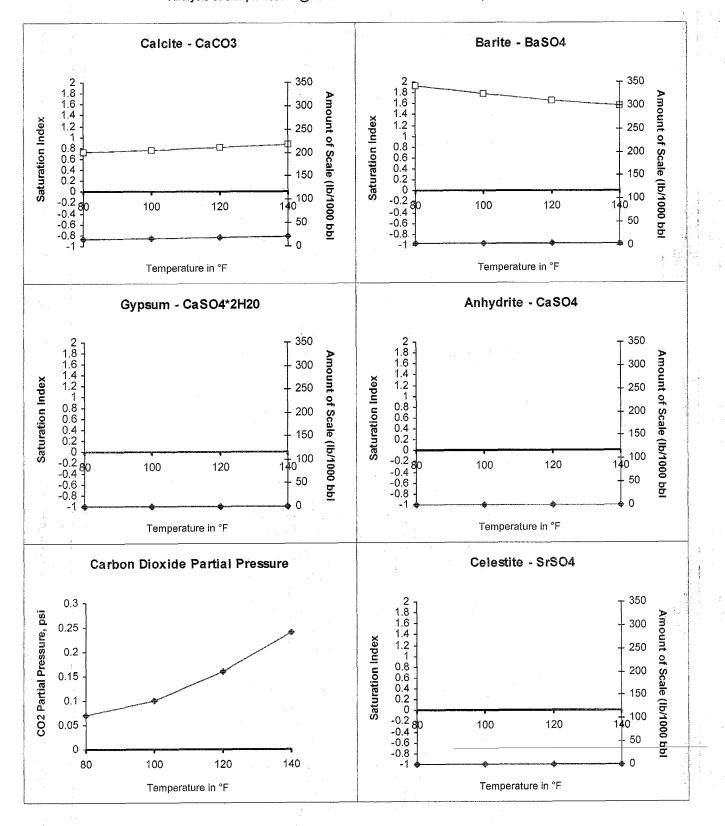
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Althound F

### Scale Predictions from Baker Petrolite

Analysis of Sample 409361 @ 75 °F for NEWFIELD EXPLORATION, 01/25/08



Attachment "G"

## Wells Draw Federal 24-33-8-16 Proposed Maximum Injection Pressure

	nterval eet)	Avg. Depth	ISIP	Calculated Frac Gradient	
Тор	Bottom	(feet)	(psi)	(psi/ft)	Pmax
6304	6309	6307	2000	0.75	1959
6144	6154	6149	2000	0.76	1960
5896	5914	5905	3800	1.08	3762
5378	5394	5386	1600	0.73	1565 ◀
4934	5004	4969	1800	0.80	1768
6000	6010	6005	1933	0.76	1894
5827	5880	5854	2650	0.89	2612
5378	5439	5408	1878	0.78	1843
4430	4684	4557	2150	0.92	2121
				Minimum	1565

Calculation of Maximum Surface Injection Pressure

Pmax = (Frac Grad -(0.433\*1.015)) x Depth of Top Perf where pressure gradient for the fresh water is .433 psi/ft and specific gravity of the injected water is 1.015.

Frac Gradient = (ISIP +(0.433\*Top Perf.))/Top Perf.

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.



A formul 9-1

WE	LL NAME: Wells Drav	w 24-33B-8-16	Rep	ort Date: <u>Fe</u>	b. 15, 2003		Day: <u>01</u>
	Operation: Re	e-complete	<u> </u>		Rig: _	Pool #820	)
			WELL STA	TUS			
Surf C	Ssg: <u>9 5/8</u> @ <u>310'</u>	Prod Csg: <u>5 1</u>	<u>/2</u>	6410'	WT: <u>17#</u>	Csg PBTD	
Tbg:	Size: 2 7/8 Wt	:: <u>6.5#</u> G	ird: <u>J-55</u>	Pkr/EOT @	: 5034'	BP/ <u>Sand</u> PBTD:	6292'
		PI	ERFORATION	RECORD			
<u>Zo</u>		SPF/#sho	<u>ts</u>	Zone		<u>erfs</u>	SPF/#shots
D1 sc		4/120	***************************************	CP sds	6304-6	309'	4/20
D2 sc	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	<u>4/48</u> 4/64			-		
A2 sc CP sc		- <del>4/64</del> 4/16			_		
CP so	The state of the s	4/48	acceptation of the second of t	***************************************	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 1		
CP so		4/40					American Ame
		CHRO	NOLOGICAL (	PERATIONS	·		
Date '	Work Performed: Fe	b. 14, 2003			SITP:	0 SICF	): <u> </u>
Rele	W/ 5 BW. Pressure test tbg ease TA @ 4889'. NU BOP.	TOH & talley 36	jts prod. tbg. \$	SIFN W/ EOT	@ 5034'. Est 1	65 BWTR.	47. F.S.
							AT AND DOLLAR OF THE STREET
Ctarti.	ng fluid load to be recovered:	<u>FL</u>	UID RECOVE		0		
	lost/recovered today:	165	-	overed today:	0	CONCRETE AND ARRANGE PARTIES AND ARRANGE PARTI	
_	g fluid to be recovered:	165	Cum oil rec	•	0		
IFL:	FFL:	FTP:	Choke:	Fir	nal Fluid Rate: _	Final	oil cut:
:			ROD DETAIL			COSTS	*****
s.,	AS PULLED	uses a second se	AS PULLED	·		Pool rig	\$2,471
KB	15.00'	_ <u>1 1/2" X 3</u>	22' polished roo	<u> </u>		rford BOP	\$130
156	2 7/8 J-55 tbg (4874.41')	1-2' & 2-8	3' X 7/8" pony r	ods		er & truck	\$400
	TA @ 4889' KB	69-7/8" s	crapered rods		IP:	C trucking	\$800
39	2 7/8 J-55 tbg (1236.16')	41-7/8" n	nixed rods	A CONTRACTOR AND A CONT	Zubi	ate HO trk	\$630
	SN @ 6128' KB	121-3/4"	plain rods		Randys pu	ımp repair	\$1,000
1	2 7/8 J-55 tbg (31.85')	6-3/4" sc	rapered rods		Weatherfo	rd scraper	\$300
	2 7/8 NC @ 6162' KB	6-1 1/2" v	weight rods		Randys	TA repair	\$350
		2 1/2" X	1 1/2" RHAC թւ	ımp	Tiger trking	(frac tks)	\$1,000
					RNI	vtr & truck	\$400
					IPC s	upervision	\$300
					and the second s	NEW CLEUPS WORLD IN THE	. · Acres
					ומת	Y COST:	\$7,781
,	Workover Supervisor:	Gary Dietz			TOTAL WE		\$7,781
. '	TO TO COLO CONTROL TO COLO	,				· · · · · · · · · · · · · · · · · · ·	4 - 3 - 7



WELL NAME: Wells Draw 24-33B-8-16

Athur. 9-1 2 of 16

### **DAILY WORKOVER REPORT**

Report Date: Feb. 16, 2003

	Operation:	Re-complete	· · · · · · · · · · · · · · · · · · ·		Rig:	Pool	#820	10.01
			WELL STATUS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	**		·
Surf Csg				<del></del>	WT: 17#	Csg P	-	6329'
Tbg:	Size: 2 7/8	Wt: 6.5#	Grd: <u>N-80</u> P	kr <u>/EOT</u> @: _	5920'	BP/ <u>Sand</u> PE	3TD: _	6315'
			PERFORATION REC	ORD				
Zone	<u>Perfs</u>	SPF/#	shots	Zone		Perfs		SPF/#shots
D1 sds	4934-4964'	4/120	<u>C</u>	P sds	6304-0	309'		I/20
D2 sds	4992-5004'	4/48		Maria Maria	***************************************		_	
A2 sds CP sds	5378-5394' 5896-5900'	<u>4/64</u> 4/16			***************************************			,
CP sds	5902-5914'	4/48				· · · · · · · · · · · · · · · · · · ·	***	, i.e.
CP sds	6144-6154'	4/40						
	<del></del>	CH	RONOLOGICAL OPER	RATIONS		<del></del>		<del> </del>
Date Wo	ork Performed:	Feb. 15, 2003	<u>-</u>		SITP:	0	SICP:	0
Con't	TOH & talley production	on tbg f/ 5034'.	LD BHA. Talley, PU &	TIH W/ 2 7/	8 NC, 5 1/2	2" casing so	raper 8	2 7/8 8rd
			sh rev circulation W/ 10		to 6315'	became ver	y hard.	Circ hole
clean.	Lost add'l 120 BW. T	OH W/ tbg to 59	920'. SIFN W/ est 385 B	WIR.				
	i .							way (190
							. 4	- 50
								. : : : : : : : : : : : : : : : : : : :
		4						
i								: لي
			FLUID RECOVERY (B	DI C)				
Starting t	fluid load to be recover	ed: 165	Starting oil rec to		0			
_	t/recovered today:	220	Oil lost/recovered		0			
Ending fl	uid to be recovered:	385	Cum oil recovere		0			-
IFL:	FFL:	FTP:	Choke:	Final I	Fluid Rate:		Final oil	cut:
	TUBING DETAIL		ROD DETAIL			COST	<u>s</u>	d.
***************************************	AS PULLED		AS PULLED		<u> </u>	Pool rig	CHI	\$3,085
KB 15	.00'	1 1/2	" X 22' polished rod	· · · · · · · · · · · · · · · · · · ·	Weath	erford BOP		\$130
156 27	7/8 J-55 tbg (4874.41')	1-2' 8	& 2-8' X 7/8" pony rods		RNI	wtr & truck		\$400
TA	(@ 4889' KB	69-7/	8" scrapered rods	<u> </u>	IPC s	supervision		\$300
39 <u>2 7</u>	7/8 J-55 tbg (1236.16')	41-7/	8" mixed rods			desimbology and propagation of the state of	<u>u</u> ta	
<u>sn</u>	N @ 6128' KB	121-3	3/4" plain rods	W-03	NAME OF TAXABLE PARTY.		_	1/1
1 27	7/8 J-55 tbg (31.85')	6-3/4	" scrapered rods			\$450 <del>-3</del> 1-1-1-1-1		350
27	7/8 NC @ 6162' KB	6-1 1	/2" weight rods			= = = cgCU:-31	<b>V</b>	<u> </u>
		2 1/2	" X 1 1/2" RHAC pump				•	
				No.			_	.,
				<del></del>		2	_	· · ·
							_	4001
		A	_			LY COST:		\$3,915
Wo	rkover Supervisor: _	Gary Dieta	7		IOIAL WE	LL COST:		\$11,696



# 7 Hum. 9-1 3 of 16

	۱ME: _	Wells I	Draw :	<b>24-33B-8-1</b> 6	)	Report	t Date:F	eb. 18,	2003		Day: <u>03</u>
C	Operat	tion:	Re-	complete	<u> </u>				Rig:	Pool #8	<b>20</b>
					WEL	L STATU	IS				47
urf Csg:	9 5/8	@310	0'	Prod Csg: 5			110'		17#	Csg PBT	
bg:	Size:	2 7/8	Wt:	6.5#	Grd:	N-80	Pkr/EOT @	D: <u>59</u>	62'	BP/Sand PBTD	
					DEDECE	ATION RE	COPD			BP/Sand PBTD	6050'
Zone		Perfs		SPF/#s		AHONKE	Zone			Perfs	SPF/#shots
	NEW 4	4430-4434'		4/16			A3 sds	NEW	5434-		4/20
		4469-4475'		4/24			CP .5 sds		5827-		4/20
"		4480-4492'	<del></del>	4/48			CP1 sds		5857- 5875-		4/12 4/20
B10 sds		4674-4684' 4934-4964'		4/40 4/120			CP sds	IAEAA	5896-		4/16
2 sds	_	4992-5004'		4/48			CP sds		5902-		4/48
sds !		5117-5124'		4/28			CP3 sds	NEW	6000-		4/40
		5128-5132'		4/16		-	CP sds		6144-		4/40
.5 sds 1 2 sds		5178-5181' 5378-5394'		4/12 4/64	·		CP sds		6304-	0309	4/20
Z 3U3		3310-3334		···	201010	CICAL OR	COATION				
ate Work I	Dawfa.		F-6	17, 2003	KUNULUC	SICAL OF	ERATION	<u>ə</u>	SITP:	0 SIC	P: 0
		-			l Datta	\\/\ T 0	of non-late-	into MII	•	d perf guns as fo	principal principal designation of the second
		and all a Oak		ted @ ave pi	ress of 458	30 psi.W/a	ave rate of	15.2 BP	M. ISIP	2-1933 psi. W/ 5	# sanα on peπ, whack of fractor
pressure inc 12/64 choke	crease e @ 1 E	rapidly. Cut s BPM. Zone flo	sand @	blender and	l able to flu	sh complete	ely. RD Scl	nlumberg	jer. Beg	P-1933 psi. W/ 5 gin immediate flov st 623 BWTR.	wback of fraction
pressure ind 12/64 choke	crease e @ 1 E	rapidly. Cut s BPM. Zone flo	sand @	) blender and 3/4 hrs & die	l able to flu d. Rec 43	sh complet BTF (est 20	ely. RD Scl	nlumberg	jer. Beg	gin immediate flov	wback of fraction
12/64 choke	∍@1E	BPM. Zone flo	sand @ owed 1	blender and 3/4 hrs & die	d able to flu d. Rec 43	sh complet BTF (est 20	ely. RD Scl 0% of frac lo (BBLS)	nlumberg	ger. Beg	gin immediate flov st 623 BWTR.	wback of fraction
12/64 choke	e @ 1 E	3PM. Zone flo	sand @ owed 1	) blender and 3/4 hrs & die	d able to fluid. Rec 43  FLUID RE	sh complete BTF (est 20 ECOVERY of the control of t	ely. RD Scl 0% of frac lo (BBLS)	nlumberg	ger. Beg FN W/ es	gin immediate flov st 623 BWTR.	wback of fraction
12/64 choke tarting fluid uid <u>lost</u> /red	d load to	to be recover	sand @owed 1	3/4 hrs & die 3/4 hrs & die 385 238 623	d able to fluid. Rec 43  FLUID RE  Star	sh complete BTF (est 20 ECOVERY of the control of t	(BBLS) c to date: ered today:	nlumberg	ger. Beg FN W/ es	gin immediate flovest 623 BWTR.	wback of frac
12/64 choke tarting fluid uid <u>lost</u> /red nding fluid	d load to	to be recover	sand @owed 1	3/4 hrs & die 3/4 hrs & die 385 238	FLUID RE Star	sh complet BTF (est 20 ECOVERY rting oil rec lost/recove	(BBLS) c to date: ered today:	nlumberg	ger. Beg FN W/ es	gin immediate flovest 623 BWTR.	al oil cut:
12/64 choke tarting fluid uid <u>lost</u> /red nding fluid	d load to	to be recover d today: recovered: FFL:	sand (cowed 1	3/4 hrs & die 3/4 hrs & die 385 238 623	FLUID RE Star Oil I	sh complet BTF (est 20 ECOVERY rting oil red lost/recove n oil recove	(BBLS) c to date: ered today:	nlumberg	ger. Beg FN W/ es	gin immediate flovest 623 BWTR.	al oil cut:
arting fluid uid <u>lost</u> /red nding fluid FL:	i load to	to be recover d today: recovered: FFL:	sand (cowed 1	385 238 623 FTP:	FLUID RE Star Oil I Cun Cho	sh complet BTF (est 20 ECOVERY rting oil red lost/recove n oil recove	(BBLS) c to date: ered today:	nlumberg	ger. Beg N W/ er ( ( d Rate:	gin immediate flovest 623 BWTR.    O	al oil cut:
arting fluid uid <u>lost</u> /red nding fluid FL:	i load i coverecto be i	to be recover d today: recovered: FFL:	sand @ owed 1  red:	3/4 hrs & die  3/4 hrs & die  385  238  623  FTP:  TION DETAIL	FLUID RE Star Oil I Cun Cho	sh complet BTF (est 20 ECOVERY rting oil red lost/recove n oil recove oke:	(BBLS) c to date: ered today:	nlumberg	ger. Beg N W/ es ( ( ( d Rate:	gin immediate flow st 623 BWTR.  Final COSTS Pool rig erford BOP	al oil cut:  \$2,703 \$130
arting fluid uid <u>lost</u> /red nding fluid FL: ase Fluid u	i load toovere to be i	to be recover d today: recovered: FFL: STII	red:	3/4 hrs & die  3/4 hrs & die  385  238  623  FTP:  TION DETAIL	FLUID RE Star Oil I Cho	sh complet BTF (est 20 ECOVERY rting oil red lost/recove n oil recove oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en ( ( d Rate:	gin immediate flow st 623 BWTR.  Final COSTS Pool rig erford BOP erson perfs	### ### ### ### ### ### ### ### #### ####
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tarting fluid uid <u>lost</u> /red nding fluid FL: ase Fluid u	d load 1 covere to be r sed: _ Sc r Equip	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ es ( ( ( d Rate: Weath Patt	gin immediate flow st 623 BWTR.  Final COSTS Pool rig erford BOP erson perfs	### ### ### ### ### ### ### ### #### ####
tarting fluid uid lost/red nding fluid FL: ase Fluid uompany: rocedure of	d load to covered to be used:	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ es  ( ( ( ( d Rate:  Weath  Patt  therfore	pin immediate flow st 623 BWTR.  Final COSTS Pool rig erford BOP erson perfs d tools/serv	\$2,703 \$130 \$6,968 \$2,500
tarting fluid uid lost/red nding fluid FL:  ase Fluid uompany: cocedure of 2487 g	d load to covered to be in sed:  Set r Equipolates of puls W/ 2	to be recovered today: recovered: FFL: YF 125 chlumberger oment detail: **PUMPE	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg FN W/ es ( ( ( ( dl Rate: Weath Patt therfore	costs Pool rig erford BOP erson perfs d tools/serv PC trucking	\$2,703 \$130 \$6,968 \$2,500 \$200
arting fluid uid lost/red ase Fluid uompany:	i load to covered to be used:  Seed:  Seed:  Seed:  Seed:  Sels W/ 2  gals W/ 2	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE pad ppg of 20/40	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en  ( ( ( ( d Rate:  Weath Patt therfore     Bookstandary	pin immediate flow of 623 BWTR.  Final COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600
tarting fluid uid lost/red nding fluid FL:  ase Fluid uompany: rocedure or  2487 g 762 ga 1056 g	d load to covered to be to sed:	to be recovered today: recovered: FFL: YF 125 chlumberger ment detail: **PUMPE pad ppg of 20/40 3 ppg of 20/44	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en  ( ( ( ( d Rate:  Weath Patt therfore     Bookstandary	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540
tarting fluid luid lost/rec nding fluid FL:  ase Fluid u ompany: rocedure of 762 ga 1056 g 1307 g 1657 g	d load to covered to be to sed:  Sed: Sed: Sed: Sed: Sed: Sed: Sed:	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 3 ppg of 20/44 4 ppg of 20/44	red:	385 238 623 FTP: TION DETAIL Job Type:	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en  ( ( ( ( d Rate:  Weath Patt therfore     Bookstandary	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540
tarting fluid uid lost/red nding fluid FL:  ase Fluid uompany: rocedure of 762 ga 1056 g 1307 g 962 ga	d load to covered to be in sed:	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 3 ppg of 20/4 4 ppg of 20/4 5 ppg of 20/40	red:	385 238 623 FTP: TION DETAIL Job Type: CP3 sa WN 2 7/8 N-8	FLUID RE Star Oil I Cun Cho	Sh complet BTF (est 20 ECOVERY rting oil recover noil recover noil recover oke:	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en  ( ( ( ( d Rate:  Weath Patt therfore     Bookstandary	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$300
tarting fluid luid lost/red nding fluid FL:  ase Fluid u ompany: rocedure of 762 ga 1056 g 1307 g 962 ga	d load to covered to be in sed:	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 4 ppg of 20/4 5 ppg of 20/4 ppg of 20/40 4	red:	385 238 623 FTP: TION DETAIL Job Type: CP3 sa WN 2 7/8 N-8	FLUID RE Star Oil I Cho	sh complet BTF (est 20 ECOVERY rting oil recove n oil recove oke: and frac	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ en  ( ( ( ( d Rate:  Weath Patt therfore     Bookstandary	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540
tarting fluid luid lost/red nding fluid IFL: asse Fluid u ompany: rocedure of 762 ga 1056 g 1307 g 962 ga	d load to be in the sed:  Set also of pals W/ 2 pals W/ 4 pals W/ 6 W/ 1444	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 4 ppg of 20/4 5 ppg of 20/4 ppg of 20/40 4	red:	385 238 623 FTP: TION DETAIL Job Type: CP3 sa WN 2 7/8 N-8	FLUID RE Star Oil I Cun Cho S TUBING	sh complet BTF (est 20 ECOVERY rting oil recove n oil recove oke: and frac	(BBLS) c to date: ered today:	nal Fluid	ger. Beg N W/ er  ( ( ( ( d Rate:  Weath Patt therfore     Bed iate HO	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540
tarting fluid luid lost/red nding fluid lost/red nding fluid lFL:  asse Fluid u company:  rocedure of 1307 g 1657 g 962 ga Flush \ Max TP: Avg TP:	di load i covered to be i sed: sed: r Equip lals W/ 2 lals W/ lals W/ lals W/ 6 W/ 1444	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 3 ppg of 20/4 4 ppg of 20/4 5 ppg of 20/4 4 ppg of 20/4 4 ppg of 20/4 4 ppg of 20/4 5 ppg of 20/4 4 ppg of 20/4 6 ppg of 20/4	red:	385 238 623 FTP: TION DETAIL Job Type: CP3 sa WN 2 7/8 N-8	FLUID RE Star Oil I Cun Cho S TUBING	sh complet BTF (est 20 ECOVERY rting oil recove n oil recove and frac  **  220 : 22	(BBLS) c to date: ered today: ered: Fi	nal Fluid	ger. Beg N W/ es  ( ( ( ( ( d) Rate:  Weath Patt therfore II Be iate HO IPC	pin immediate flow of 623 BWTR.  Final COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr) supervision	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540
tarting fluid luid lost/red nding fluid lost/red nding fluid lFL:  asse Fluid u company:  rocedure or  2487 g  762 ga  1056 g  1307 g  1657 g  962 ga  Flush V  Max TP:  Avg TP:  ISIP:	d load to covered to be in sed:  Set r Equipment of pals W/ 2 pals W/ 1444  7716 4580 1933	to be recovered today: recovered: FFL: STII YF 125 chlumberger oment detail: **PUMPE oad ppg of 20/40 3 ppg of 20/4 4 ppg of 20/4 5 ppg of 20/4 5 ppg of 20/4 4 ppg of 20/4 Max Rate:	red:	385 238 623 FTP: TION DETAIL Job Type: CP3 sa WN 2 7/8 N-8	FLUID RE Star Oil I Cun Cho S TUBING	sh complet BTF (est 20 ECOVERY rting oil recove n oil recove and frac  **  220 : 22	(BBLS) c to date: ered today: ered:	nal Fluid Wea	ger. Beg ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	COSTS Pool rig erford BOP erson perfs d tools/serv PC trucking etts frac wtr trk (frac wtr)	\$2,703 \$130 \$6,968 \$2,500 \$200 \$600 \$540



## Alturn. 4-1 4 of 16

WELL NAME: Wells Draw	24-33B-8-16	Report Date:	Feb. 19	, 2003		Day: <u>04</u>
Operation: Re	-complete	- -		Rig: _	Pool	#820
		WELL STATUS	_			
Surf Csg: 9 5/8 @ 310'	Prod Csg: 5 1/2		w	г: <u>17#</u>	Csg P	PBTD: 6329'
Tbg: Size: 2 7/8 Wt:	6.5# Grd	: N-80 Pkr/E	от @:	5768'	BP/Sand PE	***************************************
	DEE	RECORD RECORD	,		BP/Sand PE	STD: <u>5890'</u>
Zone Perfs	SPF/#shots		ne ne		Perfs	SPF/#shots
GB4 sds NEW 4430-4434'	4/16	A3 so		<u>N</u> 5434-5		4/20
GB6 sds NEW 4469-4475'	4/24	CP .5		₩ 5827-		4/20
GB6 sds <u>NEW</u> 4480-4492'	4/48	CP1 s		<u>W</u> 5857-		4/12
PB10 sds NEW 4674-4684'	4/40	CP1 s	AND DESCRIPTION OF THE PERSON	<u>№ 5875-</u> 5896-		4/20 4/16
D1 sds 4934-4964' D2 sds 4992-5004'	4/120 4/48	CP so		5902-		4/48
C sds NEW 5117-5124'	4/28	CP3 s		w 6000-		4/40
C sds <u>NEW</u> 5128-5132'	4/16	CP so		6144-6		4/40
B.5 sds <u>NEW</u> 5178-5181'	4/12	<u>CP so</u>	<u>is</u>	6304-6	3309'	4/20
A2 sds 5378-5394'	4/64					
	-	OLOGICAL OPERAT	IONS	0.70	•	olon.
Date Work Performed: Feb	. 18, 2003	The state of the s		SITP:	0	SICP: 0
.5/CP1 sds (5827' through 5880 Treated @ ave press of 4007 psi of frac on 12/64 choke @ 1 BPM annulus to 500 psi. Open bypas	W/ ave rate of 16. Zone flowed 1.1.	5 BPM. ISIP-2650 ps /2 hrs & died. Rec 34	i. RD Sch BTF (est	llumberge 8% of fra	er. Begin im c load). Fill	nmediate flowback & pressure up on
RBP @ 5890'. Circ hole clean. L See day 4(b)				i vv/ tbg.	rag so @	5660 . C/O sa to
RBP @ 5890'. Circ hole clean. L	ost est 35 BW. R	elease plug. Est 1120	BWTR.	1 VV/ tbg.	rag sa @	5000. C/O sa to
RBP @ 5890'. Circ hole clean. L See day 4(b)	ost est 35 BW. R	elease plug. Est 1120	) BWTR.	<del></del>	· · · · · · · · · · · · · · · · · · ·	5000. C/O su to
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered:	ost est 35 BW. R	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat	BWTR.  6)	0 0		5000 . C/O su to
RBP @ 5890'. Circ hole clean. L See day 4(b)	ost est 35 BW. R	elease plug. Est 1120	BWTR.  6)	0		5000 . C/O su to
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today:	ost est 35 BW. R  FLU  623  497	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat  Oil lost/recovered too	BWTR.  6) e: day:	0		Final oil cut:
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL: FFL:	623 497 1120	ID RECOVERY (BBLS Starting oil rec to dat Oil lost/recovered too Cum oil recovered:	BWTR.  6) e: day:	0 0		Final oil cut:
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL: FFL:	623 497 1120 FTP:	ID RECOVERY (BBLS Starting oil rec to dat Oil lost/recovered too Cum oil recovered:	BWTR.  6) e: day:	0 0		Final oil cut:
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL: FFL:  STIMULA	623 497 1120 FTP:	iD RECOVERY (BBLS Starting oil rec to dat Oil lost/recovered to Cum oil recovered: Choke: 12/64	BWTR.  6) e: day:	0 0 0 uid Rate: _	COST	Final oil cut:
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL:  STIMUL Base Fluid used: YF 125	623 497 1120 FTP:	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.	0 0 0 uid Rate: _	COST Pool rig	Final oil cut:
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL: FFL:  STIMUL Base Fluid used: YF 125 Company: Schlumberger Procedure or Equipment detail:	623 497 1120 FTP: ATION DETAIL Job Type:	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.	0 0 0 uid Rate: Weather	COST Pool rig erford BOP	Final oil cut:  S \$872 \$130
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered:  IFL: FFL:  STIMUL Base Fluid used: YF 125 Company: Schlumberger Procedure or Equipment detail:	623 497 1120 FTP: ATION DETAIL Job Type:	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: Weather Weatherf Be	COST Pool rig erford BOP ord service	Final oil cut:  \$ \$872 \$130 \$550
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL Base Fluid used: YF 125 Company: Schlumberger Procedure or Equipment detail:  **PUMPED Details   **PU	623 497 1120 FTP: ATION DETAIL Job Type: CP .5 & CP	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service	Final oil cut:  \$ \$872 \$130 \$550 \$600
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL Base Fluid used: YF 125 Company: Schlumberger Procedure or Equipment detail:  **PUMPED Details	623 497 1120 FTP: ATION DETAIL Job Type: CP .5 & CP	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL Base Fluid used: YF 125 Company: Schlumberger Procedure or Equipment detail:  **PUMPED Details	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP OWN 2 7/8 N-80 TU	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMULA  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details  4986 gals of pad  1514 gals W/ 2 ppg of 20/40 sar 2106 gals W/ 3 ppg of 20/40 sar 2609 gals W/ 4 ppg of 20/40 sar 3308 gals W/ 5 ppg of 20/40 sar 3308 gals W/ 5 ppg of 20/40 sar	623 497 1120 FTP: ATION DETAIL Job Type: CP .5 & CP* OWN 2 7/8 N-80 TU	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP OWN 2 7/8 N-80 TU	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMULA  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP OWN 2 7/8 N-80 TU	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac  1 sands  BING**	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMULA  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details  4986 gals of pad  1514 gals W/ 2 ppg of 20/40 sar  2106 gals W/ 3 ppg of 20/40 sar  2106 gals W/ 3 ppg of 20/40 sar  2308 gals W/ 4 ppg of 20/40 sar  3308 gals W/ 5 ppg of 20/40 sar  2387 gals W/ 6 ppg of 20/40 sar  Flush W/ 1405 gals of WF 110 f	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP OWN 2 7/8 N-80 TU	elease plug. Est 1120  ID RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered too Cum oil recovered: Choke: 12/64  Sand frac  1 sands  BING**	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMULA  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Do  4986 gals of pad  1514 gals W/ 2 ppg of 20/40 sar  2106 gals W/ 3 ppg of 20/40 sar  2106 gals W/ 3 ppg of 20/40 sar  2106 gals W/ 4 ppg of 20/40 sar  3308 gals W/ 5 ppg of 20/40 sar  3308 gals W/ 5 ppg of 20/40 sar  Flush W/ 1405 gals of WF 110 f  **SAND SCH  Miax TP: 5682 Max Rate: 18.5	G23 497 1120 FTP: ATION DETAIL Job Type: CP .5 & CP OWN 2 7/8 N-80 TU	PED**  DI RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered to Cum oil recovered: Choke: 12/64  Sand frac  1 sands  BING**	BWTR.  (6)  (b)  (c)  (day:  Final Fi	0 0 0 uid Rate: Weatherf Be ubiate HO IPC frac	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2) supervision	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$540 \$100
RBP @ 5890'. Circ hole clean. L See day 4(b)  Starting fluid load to be recovered: Fluid lost/recovered today: Ending fluid to be recovered: IFL: FFL:  STIMUL  Base Fluid used: YF 125  Company: Schlumberger  Procedure or Equipment detail:  **PUMPED Details W/ 2 ppg of 20/40 sar 2106 gals W/ 3 ppg of 20/40 sar 2106 gals W/ 3 ppg of 20/40 sar 2609 gals W/ 4 ppg of 20/40 sar 3308 gals W/ 5 ppg of 20/40 sar 2387 gals W/ 6 ppg of 20/40 sar Flush W/ 1405 gals of WF 110 f  **SAND SCH	623 497 1120 FTP: ATION DETAIL Job Type: CP.5 & CP OWN 2 7/8 N-80 TU	PED**  DI RECOVERY (BBLS  Starting oil rec to dat Oil lost/recovered to Cum oil recovered: Choke: 12/64  Sand frac  1 sands  BING**	BWTR.  Si) ee: day:  Final Fl	0 0 0 uid Rate: _ Weatherf Weatherf Be ubiate HO IPC frace	COST Pool rig erford BOP ord service etts frac wtr trk (frac wtr) valve (X2)	Final oil cut:  \$ \$872 \$130 \$550 \$600 \$100

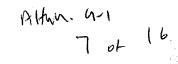


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	NAME:	wells	Draw	24-33B-8-16	R	leport Date:	Feb	. 19, 2	003			Day: <u>04</u>
	Oper	ation:	Re-	complete					Rig:	F	Pool #820	
					WELL S	TATUS						
Surf Csg:	9 5/8	@ 3	10'	Prod Csg: 5 1		6410'		WT:	17#	С	sg PBTD:	6329'
Tbg:	Size:		Wt:	. (4444)	rd: N-8	THE RESERVE THE PROPERTY OF THE PARTY OF THE	OT @:	54			d PBTD:	6315'
129	<b>Q</b> 1.201			***************************************							d PBTD:	5500'
				<u>PI</u>	ERFORATION	N RECORE	2					
<u>Zone</u>		<u>Perfs</u>	_	SPF/#sho	<u>ts</u>		<u>ne</u>			<u>Perfs</u>		SPF/#shots
GB4 sds		4430-4434		4/16		A3 so			5434-			4/20
GB6 sds		4469-4475		4/24		CP .5		. — -	5827-			4/20
GB6 sds		4480-4492		4/48	<del></del>	CP1 s			5857-		<del></del>	4/12
PB10 sds	<u>NEW</u>	4674-4684		4/40		CP1 s		NEW.	5875- 5896-		-	4/20 4/16
D1 sds		4934-4964 4992-5004		4/120 4/48		CP so			5902-			4/48
D2 sds C sds	 NEW	5117-5124		4/28		CP3 s		NFW	6000-		-07Aclancari	4/40
C sds		5128-5132		4/16		CP so		. — — .	6144-			4/40
B.5 sds		5178-5181		4/12	**********	CP so	*****		6304-		**************************************	4/20
A2 sds		5378-5394		4/64								1.244
				CHRO	NOLOGICA	L OPERATI	IONS					
Date Worl	k Darfe	armed:	Feb	. 18, 2003	110200107	<u></u>			SITP:	0	SICP:	0
115 bbls sand on Bleed tbg circ tbg c	YF 12 perfs, g off (V	5 fluid. Perf	s broke unicate ) & rec	Pumping Service down @ 6091 d to upper per est 10 bbls sd	psi. Treate fs. Stop job slurry. Fill	ed @ ave pre b:W/; est 3,58	ess of 86# so	4557 j d in fo	psi W/ rmatio	ave rate n & 3,3	e of 15.4 E 56# left in	BPM. W/ 3# tbg/casing.
See day	4(c)					VEDV /DDI S	2)					
					UID RECO	VERY (BBLS		· .	0	· .		
Starting flu	uid load	l to be recov		FL 1120	.UID RECO	oil rec to dat	e:		0			0.00
Starting flu	uid load	i to be recov	vered:	1120 135	UID RECO Starting Oil lost/		e:					
Starting flu	uid load	l to be recov	vered:	FL 1120	UID RECO Starting Oil lost/	oil rec to dat recovered too	e: day:	I Fluid	0		Final	oil cut:
Starting flu Fluid <u>lost</u> /r Ending flui	uid load	i to be recoved today: erecovered: FFL:	vered:	1120 135 1255 FTP:	UID RECO Starting Oil lost/ Cum oil	oil rec to dat recovered too recovered:	e: day:	l Fluid	0			oil cut:
Starting flu Fluid <u>lost</u> /r Ending flui IFL:	uid load recover id to be	of to be recovered to to to to to to to to to to to to to	vered:	1120 135 1255 FTP:	UID RECO Starting Oil lost/i Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:	l Fluid	0	<u>C(</u>	OSTS	
Starting flu Fluid <u>lost</u> /r Ending flui IFL: Base Fluid	uid load recover id to be	I to be recoved today: recovered: FFL: S' YF 12	rered:	1120 135 1255 FTP:	UID RECO Starting Oil lost/ Cum oil	oil rec to dat recovered too recovered: 12/64	e: day:	l Fluid	0 0 Rate:	<u>C(</u> Pool	OSTS rig	\$872
Starting flu Fluid <u>lost/r</u> Ending flui IFL: Base Fluid Company:	uid load recover id to be	of to be recovered today:  FFL:  YF 12  Schlumberg	vered: TIMULA 25 er	1120 135 1255 FTP: TION DETAIL Job Type:	UID RECO Starting Oil lost/i Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		Rate:	<u>Co</u> Pool etts frac	OSTS rig wtr	\$872 \$350
Starting flu Fluid <u>lost/r</u> Ending flui IFL: Base Fluid Company:	uid load recover id to be	d to be recoved today: e recovered: FFL: YF 12 Schlumberg	vered: TIMULA 5 er	1120 135 1255 FTP: ATION DETAIL Job Type:	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be	Co Pool etts frac	OSTS rig wtr wtr)	\$872 \$350 \$270
Starting flu Fluid <u>lost/r</u> Ending flui IFL: Base Fluid Company:	uid load recover id to be	d to be recoved today: e recovered: FFL: YF 12 Schlumberg	vered: TIMULA 5 er	1120 135 1255 FTP: TION DETAIL Job Type:	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be	<u>Co</u> Pool etts frac	OSTS rig wtr wtr)	\$872 \$350 \$270
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure	uid load recover id to be	of to be recovered today: FFL: S: YF 12 Schlumberg ipment deta	vered: TIMULA 5 er	1120 135 1255 FTP: ATION DETAIL Job Type:	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure	uid load recover id to be l used: or Equ	of to be recovered today: FFL: ST YF 12 Schlumberg tipment deta	rered: TIMULA 5 er iil:	1120 135 1255 FTP: STION DETAIL Job Type: A3 sands	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure	uid load recover id to be I used; or Equ	I to be recoved today: FFL: S: YF 12 Schlumberg tipment deta **PUMi	rered: TIMULA 25 er iil: PED DC	1120 135 1255 FTP:	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure 1987 1017 804 9	uid load recover id to be l used: or Equ 7 gals of 7 gals W/	of to be recovered today: FFL: FFL: Since YF 12 Schlumberg tipment deta **PUMI	rered: TIMULA 5 er iil: PED DC	1120 135 1255 FTP: XTION DETAIL Job Type: A3 sands	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure 1987 1017 804 9	uid load recover id to be l used: or Equ 7 gals of 7 gals W/	I to be recoved today: FFL: S: YF 12 Schlumberg tipment deta **PUMi	rered: TIMULA 5 er iil: PED DC	1120 135 1255 FTP: XTION DETAIL Job Type: A3 sands	UID RECO Starting Oil lost/ Cum oil Choke:	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure  1987 1017 804 (	uid load recover id to be l used; or Equ 7 gals of 7 gals W gals W/	d to be recoved today: FFL: S: YF 12 Schlumberg tipment deta **PUMI f pad // 2 ppg of 20 // 4 ppg of 20 // 4 ppg of 20	rered: TIMULA 25 er nil: PED DC 1/40 san 40 sand 1/40 san	1120 135 1255 FTP: ATION DETAIL Job Type: A3 sands DWN 2 7/8 N-80 1	UID RECO Starting Oil lost/ Cum oil Choke: Sand	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure  1987 1017 804 (	uid load recover id to be l used; or Equ 7 gals of 7 gals W gals W/	d to be recoved today: FFL: S: YF 12 Schlumberg tipment deta **PUMI f pad // 2 ppg of 20 // 4 ppg of 20 // 4 ppg of 20	rered: TIMULA 25 er nil: PED DC 1/40 san 40 sand 1/40 san	1120 135 1255 FTP: XTION DETAIL Job Type: A3 sands	UID RECO Starting Oil lost/ Cum oil Choke: Sand	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure  1987 1017 804 (	uid load recover id to be l used; or Equ 7 gals of 7 gals W gals W/	d to be recoved today: FFL: S: YF 12 Schlumberg tipment deta **PUMI f pad // 2 ppg of 20 // 4 ppg of 20 // 4 ppg of 20	rered: TIMULA 25 er nil: PED DC 1/40 san 40 sand 1/40 san	1120 135 1255 FTP: ATION DETAIL Job Type: A3 sands DWN 2 7/8 N-80 1	UID RECO Starting Oil lost/ Cum oil Choke: Sand	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flui IFL: Base Fluid Company: Procedure  1987 1017 804 (	uid load recover id to be l used; or Equ 7 gals of 7 gals W gals W/	d to be recovered today: FFL: FFL: Single YF 12 Schlumberg tipment deta **PUMI f pad // 2 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/	rered: TIMULA 25 er nil: PED DC 0/40 san 40 sand 0/40 san	1120 135 1255 FTP: ATION DETAIL Job Type: A3 sands DWN 2 7/8 N-80 1	UID RECO Starting Oil lost/ Cum oil Choke: Sand	oil rec to dat recovered too recovered: 12/64	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300
Starting flu Fluid lost/r Ending flu IFL:  Base Fluid Company: Procedure  1987 1017 804 ( 1024	uid load recover id to be I used; or Equ 7 gals or 7 gals W/ 1 gals W/	I to be recoved today: FFL: Srecovered: FFL: YF 12 Schlumberg ipment deta **PUMI f pad // 2 ppg of 20/ 3 ppg of 20/ // 4 ppg of 20/ ed W/ upper pe	rered: TIMULA 25 er iil: PED DC 0/40 sand 40 sand 0/40 san	1120 135 1255 FTP:  ATION DETAIL Job Type:  A3 sands DWN 2 7/8 N-80 T	UID RECO Starting Oil lost/ Cum oil Choke: Sand TUBING**	oil rec to dat recovered too recovered: 12/64 frac	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300 \$100
Starting flu Fluid lost/r Ending flu IFL: Base Fluid Company: Procedure  1987 1017 804 ( 1024  Comr	uid load recover id to be l used; or Equ 7 gals 07 gals W/ gals W/ gals W/ t gals W/	I to be recoved today: FFL: Srecovered: FFL: YF 12 Schlumberg ipment deta **PUMI f pad // 2 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ ed W/ upper pe  **SAN Max Rate:	rered:  TIMULA 25 er  iil: PED DC 0/40 sand 40 sand 0/40 sand erfs. Est 3	1120 135 1255 FTP: TION DETAIL Job Type: A3 sands DWN 2 7/8 N-80 1 d d d 3,586# sd in perfs,	Starting Oil lost/ Cum oil Choke: Sand  FUBING**  3,356# sd in pi	oil rec to dat recovered too recovered: 12/64  frac	e: day:		0 Rate: Be ate HO	Co Pool etts frac trk (frac	rig wtr wtr)	\$872 \$350 \$270 \$300 \$100
Starting flu Fluid lost/r Ending flui IFL:  Base Fluid Company: Procedure  1987 1017 804 ( 1024	uid load recover id to be I used: or Equ 7 gals W gals W gals W H gals W	I to be recoved today: FFL: Srecovered: FFL: YF 12 Schlumberg ipment deta **PUMI f pad // 2 ppg of 20/ // 4 ppg of 20/ // 4 ppg of 20/ ed W/ upper pe  **SAN Max Rate:	rered: TIMULA 25 er iii: PED DC 0/40 sand 40 sand 0/40 sand 1/40 sand 1/40 sand 1/40 sand 1/40 sand 1/40 sand 1/40 sand	1120 135 1255 FTP:  ATION DETAIL Job Type:  A3 sands DWN 2 7/8 N-80 T	Starting Oil lost/ Cum oil Choke: Sand  FUBING**  3,356# sd in pi	oil rec to dat recovered too recovered: 12/64 frac	e: day:		Beate HO IPC	Co Pool etts frac trk (frac	osts rig wtr wtr) alve sion	\$872 \$350 \$270 \$300 \$100



WELL	4/\tale=.	TTCIIS DIAW	24-33B-8-16	керо	rt Date: <u>Fel</u>	0. 19, 20	U3		Day: <u>04</u>
:	Operation:	Re	-complete			F	lig:	Pool #820	
	· · · · · · · · · · · · · · · · · · ·			WELL STAT	ile				
Curt Com	0.5/9	310'	Prod Con: 5.1		<u>us.</u> 410'	wr: 1	7#	Csg PBTD:	6329'
Surf Csg: Tbg:	9 5/8 @ Size: 2	7/8 Wt:	Prod Csg: <u>5 1/</u> 6.5# G	<u>/2       @       6</u> rd:        N-80	Pkr/EOT @:	-		and PBTD:	6315'
i bgi	0126	170						and PBTD:	5500'
			PI	ERFORATION F	ECORD				4 - 4 h - 1
Zone		<u>Perfs</u>	SPF/#sho	ts_	Zone		<u>Perfs</u>		SPF/#shots
GB4 sds	NEW 4430	-4434'	4/16	-	A3 sds		434-5439'		4/20
GB6 sds	NEW 4469		4/24		CP .5 sds		827-5832'		4/20
GB6 sds	NEW 4480		4/48		CP1 sds		857-5860'		4/12
PB10 sds			4/40	nie nie	CP1 sds		875-5880'	me parama	4/20 4/16
D1 sds	The second secon	-4964' -5004'	4/120 4/48		CP sds CP sds		896-5900' 902-5914'		4/48
D2 sds C sds	NEW 5117		4/28		CP3 sds	me month	000-6010		4/40
C sds	NEW 5117		4/16		CP sds		144-6154'		4/40
B .5 sds	NEW 5178		4/12		CP sds		304-6309'		4/20
A2 sds		-5394'	4/64				<del></del>		Çis.
· · · · · · · · · · · · · · · · · · ·			CHBO	NOLOGICAL O	PERATIONS			<del></del>	
Data Mar	k Performed	lı Ech	. 18, 2003	NOLOGICAL O	FERATIONO	S	ITP: 0	SICP	. 0
Date wor		. <u>160</u>	. 10, 2003			-	· · · · · · · · · · · · · · · · · · ·		
<u> </u>	<u>.</u>								
Starting flu	iid load to be		FL	UID RECOVER	Y (BBLS)				A Comment
	ecovered tod	recoverea:	<u>FL</u> 1255	UID RECOVER Starting oil re			0		A Section
					ec to date:	Characteristics	0 0		H Comment
IFL:	id to be recov	lay:	1255 135 1390	Starting oil re Oil lost/recov Cum oil reco	ec to date: vered today: vered:	Carrier Control of Con	0		He have been seen as a second
		lay: /ered:	1255 135	Starting oil re Oil lost/recov Cum oil reco	ec to date: vered today: vered:	al Fluid F	0	Final	oil cut:
	id to be recov	lay: /ered:	1255 135 1390	Starting oil re Oil lost/recov Cum oil reco	ec to date: vered today: vered:	al Fluid F	0 0 Rate:	Final COSTS	oil cut:
Base Fluid	id to be recov	lay: /ered:	1255 135 1390 FTP:	Starting oil re Oil lost/recov Cum oil reco	ec to date: vered today: vered:	al Fluid F	0 0 Rate:		
Base Fluid Company:	id to be recov	lay: /ered:  STIMULA	1255 135 1390 FTP:	Starting oil re Oil lost/recov Cum oil reco Choke:	ec to date: vered today: vered:	al Fluid F	0 0 Rate:	COSTS ol rig	\$872
Company:	used: Schlur	lay: /ered: STIMULA YF 125 mberger	1255 135 1390 FTP: ATION DETAIL Job Type:	Starting oil re Oil lost/recov Cum oil reco Choke: 1	ec to date: vered today: vered: 2/64 Fin	,	0 0 Rate: 	COSTS ol rig	\$872 \$300
Company:	used: Schlur	STIMULA YF 125 mberger	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra	COSTS ol rig c wtr c wtr)	\$872 \$300 \$270
Company: Procedure	used: Schlur or Equipmen	STIMULA YF 125 mberger	1255 135 1390 FTP: ATION DETAIL Job Type:	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra	COSTS ol rig oc wtr c wtr) thaw)	\$872 \$300 \$270 \$115
Company: Procedure	used: Schlur or Equipmen	STIMULA YF 125 mberger nt detail:	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk (	c wtr c wtr) thaw)	\$872 \$300 \$270 \$115 \$300
Company: Procedure  1487 510	used: Schlur or Equipmen * gals of pad gals W/ 2 ppg	STIMULA YF 125 mberger nt detail: *PUMPED DO	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v RNI wtr &	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
Company: Procedure  1487 510 505	used: Schlur or Equipmen  gals of pad gals W/ 2 ppg gals W/ 3 ppg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk (	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
Company: Procedure  1487 510 505 757	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v RNI wtr &	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
1487 510 505 757 1007	used: Schlur or Equipmen gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v RNI wtr &	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
Company: Procedure  1487 510 505 757 1007 858	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg gals W/ 5 ppg gals W/ 6 ppg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1 Sand frac	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
Company: Procedure  1487 510 505 757 1007 858	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg gals W/ 6 ppg n W/ 1302 gals	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1  Sand frac  A2 & new A3 sand  FUBING**	ec to date: vered today: vered: 2/64 Fin	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400
Company: Procedure  1487 510 505 757 1007 858 Flusi	id to be recover FFL:  used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg gals W/ 5 ppg gals W/ 6 ppg n W/ 1302 gals	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand sof 20/40 sand sof WF 110 fl **SAND SCH	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1  Sand frac  A2 & new A3 sand  TUBING**	ec to date: vered today: vered: 12/64 Final	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400 \$100
Company: Procedure  1487 510 505 757 1007 858 Flusi	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 3 ppg gals W/ 5 ppg gals W/ 5 ppg gals W/ 6 ppg n W/ 1302 gals : 4988 Max	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand sof 20/40 sand sof WF 110 fl **SAND SCH Rate: 18.5	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1  Sand frac  A2 & new A3 san  UBING**	ec to date: vered today: vered: 12/64 Final ds	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v	c wtr c wtr) thaw) valve	\$872 \$300 \$270 \$115 \$300 \$400 \$100
Procedure  1487 510 505 757 1007 858 Flusi Max TF Avg TF	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg gals W/ 6 ppg n W/ 1302 gals c: 4988 Max c: 3277 Avg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand sof WF 110 fl **SAND SCH Rate: 18.5 Rate: 15.6	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1  Sand frac  A2 & new A3 sand  TUBING**  AMPED**  d pmpd: 15  p pmpd: 15	ec to date: vered today: vered: 12/64 Final ds 4,438#	Zubiat	0 0 Rate:  Po Betts fra e HO trk (fra iate HO trk ( IPC frac v RNI wtr & IPC super	costs ol rig c wtr c wtr) thaw) valve truck vision	\$872 \$300 \$270 \$115 \$300 \$400 \$100
Company: Procedure  1487 510 505 757 1007 858 Flus  Max TP Avg TP	used: Schlur or Equipmen  gals W/ 2 ppg gals W/ 3 ppg gals W/ 4 ppg gals W/ 5 ppg gals W/ 6 ppg n W/ 1302 gals c: 4988 Max c: 3277 Avg	STIMULA YF 125 mberger nt detail: *PUMPED DO of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand of 20/40 sand sof WF 110 fl **SAND SCH Rate: 18.5 Rate: 15.6	1255 135 1390 FTP: ATION DETAIL Job Type: Existing A DWN 2 7/8 N-80 T	Starting oil re Oil lost/recov Cum oil reco Choke: 1  Sand frac  A2 & new A3 sand  TUBING**  AMPED**  d pmpd: 15  p pmpd: 15	ec to date: vered today: vered: 12/64 Final ds	Zubiat	0 0 Rate: Po Betts fra e HO trk (fra iate HO trk ( IPC frac v	c wtr c wtr) thaw) valve truck vision	\$87 \$30 \$27 \$11 \$30 \$40 \$10





	Feb. 20,	2003		Day: 05
Operation: Re-complete		Rig:	Pool #820	
WELL STATUS		····		
Surf Csg: 9 5/8 @ 310' Prod Csg: 5 1/2 @ 6410'		17#	Csg PBTD:	6329'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: N-80 Pkr/EC	<u> </u>		and PBTD:	6315'
PERFORATION RECORD		<u>BP/</u> 58	and PBTD:	5230'
Zone Perfs SPF/#shots Zoi		<u>Perfs</u>		SPF/#shots
GB4 sds <u>NEW</u> 4430-4434' 4/16 A3 sd		5434-5439'		4/20
GB6 sds NEW 4469-4475' 4/24 CP .5		5827-5832'		4/20 4/12
GB6 sds         NEW         4480-4492'         4/48         CP1 s           PB10 sds         NEW         4674-4684'         4/40         CP1 s		5857-5860' 5875-5880'	<del></del>	4/12
D1 sds 4934-4964' 4/120 CP sd		5896-5900'	DOUGHER DOUGHO	4/16
D2 sds 4992-5004' 4/48 CP sd		5902-5914'	interest of the second of the	4/48
C sds         NEW         5117-5124'         4/28         CP3 s           C sds         NEW         5128-5132'         4/16         CP sd		6000-6010' 6144-6154'		4/40
C sds         NEW 5128-5132'         4/16         CP sd           B .5 sds         NEW 5178-5181'         4/12         CP sd	HOPELED LOVIENCE	6304-6309'		4/20
A2 sds 5378-5394' 4/64				
CHRONOLOGICAL OPERATION	ONS		······································	
Date Work Performed: Feb. 18, 2003		SITP: 0	SICP:	0
5222'). Fill & hold annulus full during frac (used 5 BW). RU Schlumberger Pum 5181') W/ 27,895# 20/40 sand in 252 bbls YF 125 fluid. Perfs broke down @ 248 of 16 BPM. 14 bbls into flush frac screened out W/ 5.9# sd on perf. Experienced annulus). RD Schlumberger. Bleed off tbg & pump on annulus. Circulated back Unable to work pkr loose. Shut in tbg & pump on annulus @ 1200 psi. Began sandline & tag top of pkr @ 5037'. RU Weatherford WLT & run freepoint tool. For free @ 4860' (approx. 170' sd fillup outside tbg). Chemically cutoff tbg @ 4864' 4740'. Est 1667 BWTR.	38 psi. Trea apparent tbg k sd slurry V working tbg ound tbg cle	ted @ ave pres rupture (lost th // 40 bbl pit ga to 110K. Still ar inside pkr, 3	ss of 3075 ps og pressure a ain. Getting o I no travel in 30% free @ 4	i W/ ave rate nd gained on dean returns. pkr. RIH W/ 890' & 100%
ELUID DECOVERY (PRI S	· · · · · · · · · · · · · · · · · · ·		····	
Starting fluid load to be recovered: 1390 Starting oil rec to date	_	0	- 14	
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod	ə:	0		
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Cum oil recovered: 1667 Cum oil recovered:	ə: ay:	0		
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod	ə:	0	Final c	oil cut:
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FTP: Choke:	ə: ay:	0 0 I Rate:	COSTS	
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac	ə: ay:	0 0 1 Rate:	COSTS ol rig	\$3,059
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger	e: ay: Final Fluid	0 0 I Rate: Po Betts fra	COSTS ol rig	\$3,059 \$750
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac	e: ay: Final Fluid Zub	0 0 I Rate: Po Betts fra	COSTS ol rig ac wtr c wtr)	\$3,059 \$750 \$800
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger	e: ay: Final Fluid Zub	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk (	costs ol rig c wtr c wtr) thaw)	\$3,059 \$750 \$800 \$115
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Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke: STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**	e: ay: Final Fluid Zub	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk (	costs ol rig oc wtr c wtr) (thaw) valve	\$3,059 \$750 \$800 \$115 \$300
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad	e: ay: Final Fluid Zub	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk (	c wtr) (thaw) valve BOP	\$3,059 \$750 \$800 \$115 \$300 \$130
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand	e: ay: Final Fluid Zub	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford	costs ol rig c wtr c wtr) (thaw) valve BOP	\$3,059 \$750 \$800 \$115 \$300 \$130
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand	e: ay: Final Fluid Zub Z	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se	costs ol rig c wtr c wtr) thaw) valve BOP ervice valve	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand  1456 gals W/ 4 ppg of 20/40 sand	e: ay: Final Fluid Zub Z	0 0 I Rate: Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se	costs ol rig cowtr cowtr) thaw) valve BOP ervice valve fracs)	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke: STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand  1456 gals W/ 4 ppg of 20/40 sand  1805 gals W/ 5 ppg of 20/40 sand	e: ay: Final Fluid Zub Z	O O I Rate:  Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se IPC frac umberger(4 f	costs ol rig c wtr c wtr) thaw) valve BOP ervice valve fracs)	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532 \$5,514
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered tod Ending fluid to be recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke:  STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand  1456 gals W/ 4 ppg of 20/40 sand  1805 gals W/ 5 ppg of 20/40 sand  1112 gals W/ 6 ppg of 20/40 sand	e: ay: Final Fluid Zub Z	O O I Rate:  Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se IPC frac umberger(4 f Weatherford	costs ol rig c wtr c wtr) thaw) valve BOP ervice valve fracs)	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532 \$5,514
Starting fluid load to be recovered: 277 Oil lost/recovered today: 277 Oil lost/recovered today: 1667 Cum oil recovered: 1667 Cum oil recovered: 1667 Cum oil recovered: 1667 Cum oil recovered: 1667 Choke: STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand  1456 gals W/ 4 ppg of 20/40 sand  1805 gals W/ 5 ppg of 20/40 sand  1112 gals W/ 6 ppg of 20/40 sand  Flush W/ 587 gals of WF 110 fluid (711 gals short of top perf)	e: ay: Final Fluid Zub Z	O O I Rate:  Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se IPC frac umberger(4 f Weatherford	costs ol rig c wtr c wtr) thaw) valve BOP ervice valve fracs)	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532 \$5,514 \$300
Starting fluid load to be recovered: 1390   Starting oil rec to date	e: ay: Final Fluid Zub Z	O O I Rate:  Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se IPC frac umberger(4 f Weatherford IPC superv	costs ol rig c wtr c wtr) thaw) valve BOP ervice valve fracs) WLT	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532 \$5,514 \$300
Starting fluid load to be recovered: 1390 Starting oil rec to date Fluid lost/recovered today: 277 Oil lost/recovered today: 1667 Cum oil recovered: 1667 Cum oil recovered: IFL: FFL: FTP: Choke: STIMULATION DETAIL  Base Fluid used: YF 125 Job Type: Sand frac  Company: Schlumberger  Procedure or Equipment detail: C & B .5 sands  **PUMPED DOWN 2 7/8 N-80 TUBING**  2981 gals of pad  1456 gals W/ 2 ppg of 20/40 sand  1207 gals W/ 3 ppg of 20/40 sand  1456 gals W/ 4 ppg of 20/40 sand  1805 gals W/ 5 ppg of 20/40 sand  1112 gals W/ 6 ppg of 20/40 sand  Flush W/ 587 gals of WF 110 fluid (711 gals short of top perf)  Screened out W/ 5.9# sd on perf. Est 24,989# in perfs, 2,906# left in pipe  Max TP: 8500 Max Rate: 19.4 BPM Total fluid pmpd: 252 bbls	e: ay:  Final Fluid  Zub  Z  W  Schl	O O I Rate:  Po Betts fra iate HO trk (fra ubiate HO trk ( IPC frac Weatherford eatherford se IPC frac umberger(4 f Weatherford	ol rig ic wtr c wtr) thaw) valve BOP ervice valve iracs) WLT vision	\$3,059 \$750 \$800 \$115 \$300 \$130 \$550 \$300 \$45,532 \$5,514 \$300



WELL NAME: Wells Draw 24-33B-8-16

## Affan. 9-1 8 of 16

Day: <u>06</u>

### **DAILY WORKOVER REPORT**

Report Date: Feb. 21, 2003

Surf Ceg:   9 58   8   316		Opera	ation:	Re-	complete	<u> </u>		* * * * * * * * * * * * * * * * * * *		Rig:	Poo	l #820	
Surf Cog. 9 5/8 @ 310' Prod Cog: 5112 @ 8410' WT: 17# Cog PBTD: 63395'. Tbg: Size: 27/8 Wt: 6.5# Grd: N-80 PwiEDT @: 4740' RPSEand PBTD: 63495'.  PERSONAL STORM				-			MELL CTA	TUE					47.440
Tbg: Size: 2 7/8 Wt: 6.5# Grd: N-80 PkrEDI @: 4740' BPISand PBTD: 5318'    Performance		0 5/0	- 04	<b>^</b> 1					1027	474	<b>6</b>	DDTD.	6330!
Section   Parts   Section   Sectio	=	VALUE OF THE OWNER OWNER O			- 46								Name and Address of the Owner, which
Zone	Tbg:	Size:	2 /18	wt:_	0.5#	Gra:	N-8U	PKr <u>/EU1</u> (	@:4 <i>1</i>	40			
Zone   Perfs   SPP/#shots   Zone   Perfs   SPP/#shots   GB6 sds   NEW 4430-4434*   4/16   A3 sds   NEW 5324-5439*   4/20   GB6 sds   NEW 4430-4475*   4/24   CP 5 sds   NEW 5327-8332*   4/20   GB6 sds   NEW 4694-4475*   4/24   CP 1 sds   NEW 5827-8382*   4/20   GB6 sds   NEW 4674-4864*   4/40   CP1 sds   NEW 5875-5880*   4/20   CP 1 sds   NEW 5875-5880*   4/20					100	DEDI	CODATION	BECORD			<u>BP/</u> Sand P	вто:	2230
GB4 sds   NEW   4430-4434*   4416	_				o n in w		ORATION				D. G.		ODE/Makata
GB6 sds   NEW   4489-4475    4/24   CP. 5 ds   NEW   5827-5832    4/12						nots			h 11-187	E 40 4			
CBB side   NEW   4880-4492    4445							i						
PB10 sds NeW   4674-4684*   4140							ı						
D1 sds											·		
D2 sds		NEW							WEAA	-	Marie and the same of the same		-
C sds		-											ALEO
Starting fluid load to be recovered:   1667   Starting fluid load to be recovered:   1717   Cum oil recovered:		_					•						
B. 5 sds   NEW 5178-5181'   4/12   CP sds   6304-6309'   4/20							•		NEW				7/70
Date Work Performed: Feb. 20, 2003  Date Work Performed: Feb. 20, 2003  Open well. Well was flowing. Cric hole clean. TOH w/ 146 jt's & 23.43' chemically cutoff tbg. Found split in jt # 143. Fist left in hole (8.78' chemically cutoff 2.7/8" N-80 stub, 5 jt's & " HD" packer. Total fish length 172'. PU & TIH W/ 4 3/4" x 3.7/8" wash over shoe, 6 jts 4 1/2" washover pipe, Top sub, x-over sub & 144 jts N-80 tbg. Tag fish top @ 4864'. Cric hole clean. Wash over fish down to packer @ 5037'. Cric hole clean. Pull EOT to 4320' SWIFN. 1717 BWTR.  Starting fluid load to be recovered: 1667  Starting oil rec to date: 0  Oil lost/recovered today: 0  Ending fluid to be recovered: 1717  Cum oil recovered: Final Fluid Rate: Final oil cut: Final Fluid Rate: Final oil cut: Final oil cut: Final Fluid Rate: Final					WARRED WATCHIE			PROTECTION PROTECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE P					7/70
Date Work Performed: Feb. 20, 2003 SITP: 0 SICP: 0 Open well. Well was flowing. Cric hole clean. TOH w/ 146 jt's & 23.43' chemically cutoff 17,8" N-80 stub. 5 jt's & "HD" packer. Total fish length 172. PU & TIH W/ 43.4" x/ 7/8" wash over shoe, 6 jts 4 1/2" washover pipe, Top sub, x-over sub & 144 jts N-80 tbg. Tag fish top @ 4864'. Cric hole clean. Wash over fish down to packer @ 5037'. Cric hole clean. Pull EOT to 4320' SWIFN. 1717 BWTR.  Starting fluid load to be recovered: 1667 Starting oil rec to dato: 0 Fluid Jost/recovered today: 50 Oil Instructored today: 0 Ending fluid to be recovered: 1717 Cum oil recovered: 0 IFL: FFL: FTP: Choke: Final Fluid Rate: Final oil cut: STIMULATION DETAIL  STIMULATION DETAIL  SOSTS Pool rig \$3,14 Four star fishing tools \$3.00 Weatherford BOP \$13 IPC supervision \$30  DAILY COST: \$6,57		<u>NEW</u>						CP sas		6304	-6309		4/20
Date Work Performed:   Feb. 20, 2003   SITP:   0   SICP:   0	A2 sds		5378-5394'		4/64		•						
Date Work Performed:   Feb. 20, 2003   SITP:   0   SICP:   0					СН	RONC	LOGICAL	<b>OPERATION</b>	S				
Open well. Well was flowing. Cric hole clean. TOH w/ 146 jt's & 23.43' chemically cutoff tbg. Found split in jt # 143. Fist left in hole ( 8.78' chemically cutoff 27/8" N.80 stub, 5 jt's & "HD" packer. Total fish length 172'. PU & TIH W/ 4 3/4" x 37/8" wash over shoe, 6 jts 4 1/2" washover pipe, Top sub, x-over sub & 144 jts N-80 tbg. Tag fish top @ 4864'. Cric hole clean. Wash over fish down to packer @ 5037'. Cric hole clean. Pull EOT to 4320' SWIFN. 1717 BWTR.  Starting fluid load to be recovered: 1667 Starting oil rec to date: 0 Ending fluid to be recovered: 1717 Cum oil recovered: 0  Ending fluid to be recovered: 1717 Cum oil recovered: Final Fluid Rate: Final oil cut:  STIMULATION DETAIL  COSTS Pool rig. \$3,14 Four star fishing tools \$3.00 Weatherford BOP \$13 IPC supervision \$36  DAILY COST: \$6,57	Date Worl	( Perf	ormed:	Feb			1			SITP:	0	SICP:	0
left in hole ( 8.78' chemically cutoff 2 7/8" N-80 stub, 5 jit's & "HD" packer. Total fish length 172'. PU & TIH W/4 3/4" X 7/8" wash over shoe, 6 jts 4 1/2" washover pipe, Top sub, x-over sub & 144 jts N-80 tbg. Tag fish top @ 4864'. Cric hole clean. Wash over fish down to packer @ 5037'. Cric hole clean. Pull EOT to 4320' SWIFN. 1717 BWTR.  Starting fluid load to be recovered: 1667   Starting oil rec to date: 0   Ending fluid to be recovered: 1717   Cum oil recovered today: 0   Ending fluid to be recovered: 1717   Cum oil recovered today: 0   Ending fluid to be recovered: 1717   Cum oil recovered: 0   Ending fluid to be recovered: 1717   Cum oil recovered: 0   Ending fluid to be recovered: 1718   Fire:   STIMULATION DETAIL   Pool rig   \$3,14   Four star fishing tools   \$3,00   Weatherford BOP   \$13    IPC supervision   \$30    DAILY COST:   \$6,57    Still Will all the properties of the properties					·		1440.00	0.00.4011				•	# 4 40 Field
Clean. Wash over fish down to packer @ 5037'. Cric hole clean. Pull EOT to 4320' SWIFN. 1717 BWTR.    Starting fluid load to be recovered:	left in hol	le (8.7	'8' chemically	/ cutof	f 2 7/8" N-8	0 stub	, 5 jt's & " l	HD" packer. T	otal fish	length	າ 172'. PU &	: TIH V	<i>I</i> / 4 3/4" x 3
Starting fluid load to be recovered:   1667   Starting oil rec to date:   0													e .
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0	ologin. VV	4011 01	or non donn	to pao									أولونا ( الله الله الله الله الله الله الله ا
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0													r: 46
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0													$\mathcal{J}_{\mathcal{U}_{1}}$
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0						, 1							
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0							:						4. 47
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0													
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0													
Starting fluid load to be recovered: 1667   Starting oil rec to date: 0													
Fluid			<u></u>			FLUI	RECOVE	RY (BBLS)					
Ending fluid to be recovered: 1717	Starting flu	id load	l to be recove	red:	1667	t	Starting oi	I rec to date:			0	_	
FFL:   FTP:   Choke:   Final Fluid Rate:   Final oil cut:	Fluid lost/r	ecover	ed today:		50		Oil lost/red	covered today:			0	_	
STIMULATION DETAIL   Pool rig   \$3,14     Four star fishing tools   \$3,00     Weatherford BOP   \$13     IPC supervision   \$30     45     DAILY COST:   \$6,57	Ending flui	d to be	recovered:		1717		Cum oil re	covered:			0		: · · · ·
Pool rig   \$3,14     Four star fishing tools   \$3,00     Weatherford BOP   \$13     IPC supervision   \$30	IFL:		FFL:		FTP:		Choke:	Fi	nal Fluid	l Rate:		Final	oil cut:
Pool rig   \$3,14     Four star fishing tools   \$3,00     Weatherford BOP   \$13     IPC supervision   \$30	******										000		
Four star fishing tools  Weatherford BOP \$13  IPC supervision  \$30  DAILY COST: \$6,57	1		STI	MULA	TION DETAIL	<u> </u>					•		00.440
Weatherford BOP   \$13									***************************************				
IPC supervision									Fou	ır star i	fishing tools		\$3,000
IPC supervision			<del></del>							Wea	therford BOP		\$130
DAILY COST: \$6,57	<u> </u>				***************************************				F48-14144/900		*************	•	
DAILY COST: \$6,57					-	····				IPC	supervision	-	φουι
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TANIFOLD BURNINGS INDICES IN THE STATE OF TH													\$6,578

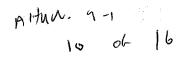


### DAILY WORKOVER REPORT

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Report Date: Feb. 22, 2003 Wells Draw 24-33B-8-16 Day: 07 WELL NAME: Pool #820 Operation: Re-complete **WELL STATUS** 6329 9 5/8 Prod Csg: 5 1/2 6410 WT: 17# Csg PBTD: Surf Csa: 6315 Size: 2 7/8 Wt: 6.5# N-80 Pkr/EOT @: 4740' BP/Sand PBTD: Tbg: BP/Sand PBTD: 5230' PERFORATION RECORD SPF/#shots Zone 2 **Perfs** SPF/#shots <u>Perfs</u> <u>Zone</u> 4/20 4/16 A3 sds NEW 5434-5439 GB4 sds NEW 4430-4434 CP .5 sds NEW 5827-5832 4/20 4/24 GB6 sds NEW 4469-4475' 4/12 4/48 CP1 sds NEW 5857-5860' GB6 sds NEW 4480-4492 NEW 4674-4684 4/40 CP1 sds NEW 5875-5880° 4/20 PB10 sds 4/120 CP sds 5896-5900 4/16 D1 sds 4934-4964 5902-5914 4/48 D2 sds 4992-5004 4/48 CP sds 4/28 CP3 sds NEW 6000-6010 4/40 NEW 5117-5124 C sds CP sds 6144-6154 4/40 4/16 C sds NEW 5128-5132' 6304-6309 4/20 NEW 5178-5181' 4/12 CP sds B .5 sds 5378-5394 4/64 A2 sds CHRONOLOGICAL OPERATIONS SITP: SICP: Feb. 21, 2003 **Date Work Performed:** TIH W/ 23 jt's N-80 tbg & 6 jt's washover pipe. Tag sand @ 5036' (1' fill on top of packer). Circ hole clean. TOH W/ tbg & washover pipe. TIH W/ 4 1/2" overshot w/ 2 7/8" grapple, bumper sub, jars & 150 jt's N-80 tbg. Tag fish top @ 4864'. Atempt to latch onto fish unable to latch onto fish. TOH overshot showed fish top was flaired. TIH w/ 41 jt's tbg for Kill string, SWIFN, Est 1767 BWTR, EOT @ 1350'. FLUID RECOVERY (BBLS) 1717 Starting oil rec to date: Starting fluid load to be recovered: 0 50 Oil lost/recovered today: Fluid lost/recovered today: Ending fluid to be recovered: 1767 Cum oil recovered: Final Fluid Rate: Final oil cut: IFL: FFL: FTP: Choke: COSTS STIMULATION DETAIL \$2,225 Pool rig \$3,000 Four star fishing tools \$130 Weatherford BOP \$300 IPC supervision \$426 Kristy's light towers RNI water truck \$300 DAILY COST: \$6,381 \$103,587 **TOTAL WELL COST:** Ray Herrera Workover Supervisor:



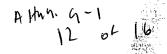


	NAME:						reb. 23,				Day: Uo
	Opera	ition:	Re-cor	mplete		•	•	Ríg:	Poo	I #820	
					WELL S	TATUS					
Surf Csg:	9 5/8	@ 31	O' Pr	od Csg: 5		6410'	WT:	17#	Csa i	PBTD:	6329
Tbg:	Size:	2 7/8			Grd: N-8				BP/Sand P		6315'
rbg.	3126.	2110	AAr,	U.UIT	J. 4.	O I KIZEO	r @.		BP/Sand P		5230'
					PERFORATION	ON RECORD			<u>Di l</u> ound i	J. J.	<u> </u>
Zone		Perfs		SPF/#sh		Zon	e		Perfs		SPF/#shots
GB4 sds	NEW	4430-4434		4/16	1010	A3 sds	_	5434			4/20
GB6 sds		4469-4475'		4/24	<del></del>	CP .5 s		5827			4/20
GB6 sds		4480-4492'		4/48	<del></del>	CP1 sd		5857			4/12
PB10 sds		4674-4684'		4/40	<del></del>	CP1 sd		5875			4/20
D1 sds	TAEAA	4934-4964'		4/120		CP sds			-5900'		4/16
D1 sds		4992-5004		4/48		CP sds		-	-5914'		4/48
C sds	- ALEXAL	5117-5124		4/28		CP3 sd		6000	PROPERTY AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON		4/40
C sds		5128-5132'	<del></del>	4/16	<del></del>	CP sds			-6154'		4/40
				4/12		CP sds		MANAGEMENT PROPERTY	-6309'		4/20
B.5 sds	WEAA	5178-5181		4/64		<u>GF 3us</u>	·	0304	-0003		T/ EU
A2 sds		5378-5394'									
				CHR	ONOLOGICA	L OPERATIO	<u>NS</u>				
Date Wor	k Perfo	rmed:	Feb. 22	2, 2003				SITP:	0	SICP:	0
80 tbg. T	ag fish	top @ 4864' N-80 tbg. S\	'. Dresse	d off fish to	op & latch onto	right & 2 7/8" o fish. Release	packer &	к ТОН.	LD fish & fis	shing to	ools. PU RH
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		<del></del>	· · · · · ·		LUID BECO	VEDV (DDI 6)				-	
Ctartina fi	المعمل المنا	to be receive	rod:	_		VERY (BBLS)			0		
		to be recove		1767	Starting	oil rec to date:			0	-	
Fluid lost/	recover	ed today:	0	1767	Starting Oil lost/	oil rec to date: recovered toda			0	-	
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered:	0 17	1767 ) 67	Starting Oil lost/ Cum oil	oil rec to date:	y:		0	Final	oil cut:
Fluid lost/	recover	ed today:	0	1767 ) 67	Starting Oil lost/	oil rec to date: recovered toda			0	*	oil cut:
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y:		0 0 <u>cos</u> 1	<u>ΓS</u>	
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate:	0 0 <u>COS</u> 1 Pool rig	<u>. ГЅ</u>	\$1,691
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate:	0 0 <u>cos</u> 1	<u>. ГЅ</u>	
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star	0 0 COST Pool rig fishing tools	Γ <u>S</u> -	\$1,691 \$2,348
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	0 0 COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130 \$300
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130 \$300
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130 \$300
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools	<u>[\$</u> -	\$1,691 \$2,348 \$130 \$300
Fluid <u>lost/</u> Ending flu	recover	ed today: recovered: FFL:	170 FT	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools therford BOP C supervision	<u>ΓS</u>	\$1,691 \$2,348 \$130 \$300
Fluid lost/i Ending flu IFL:	recoverd id to be	ed today: recovered: FFL:	177	1767 ) 67 P:	Starting Oil lost/ Cum oil	oil rec to date: recovered toda	y: Final Flui	d Rate: ur star Wea	COST Pool rig fishing tools		\$1,691 \$2,348 \$130 \$300



## amm. 4-1

WELL N	IAME: Wells Drav	№ 24-33B-8-16	Repo	ort Date: <u>Fel</u>	25, 20	003		Day: <u>09</u>
	Operation: Re	e-complete				Rig: Po	ol #820	
<del></del>			WELL STAT	THE	:			
Surf Csg:	9 5/8 @ 310'	Prod Csg: 5 1		<u>03</u> 6410'	WT:	17# Csr	PBTD:	6329'
bg:	9 5/8 @ 310° Size: 2 7/8 Wt		rd: N-80	Pkr <u>/EOT</u> @:	Ō		-	6315'
ωg.	<u> </u>			<u></u>	<u>·</u>	BP/Sand		4740
		<u>P</u> I	ERFORATION	RECORD				- 1
Zone	<u>Perfs</u>	SPF/#sho	<u>ts</u>	<u>Zone</u>		Perfs		SPF/#shots
B4 sds	NEW 4430-4434'	4/16		A3 sds		5434-5439'		4/20
B6 sds	NEW 4469-4475'	4/24		CP .5 sds		5827-5832'		4/20
B6 sds	NEW 4480-4492'	4/48		CP1 sds CP1 sds		5857-5860' 5875-5880'	<del></del>	4/12 4/20
B10 sds 1 sds	NEW 4674-4684' 4934-4964'	4/120		CP sds		5896-5900'		4/16
2 sds	4992-5004'	4/48	<del></del> -	CP sds		5902-5914'		4/48
sds	NEW 5117-5124'	4/28		CP3 sds		6000-6010'		4/40
sds	NEW 5128-5132'	4/16		CP sds		6144-6154'		4/40
.5 sds	NEW 5178-5181'	4/12		CP sds		6304-6309'		4/20
2 sds	5378-5394'	4/64						, William 1
		CHRO	NOLOGICAL C	PERATIONS	.,		<del>,</del>	1 4 4 4 4
ate Work	Performed: Fe	b. 24, 2003		1	5	SITP: 0	SICP	. 0
	H W/ RH & tbg f/ 1350		SE! C/O ad to	DDD @ E220'			 + oct 13	0 BM 8 rec
CONTENT	io BO. Release plug.	Dull we San and	50. 070 30 to	TOU W/ that	, O., O.	Cloop flat took	CIEN	M/ act 1907
		<b>E</b> 1	UID RECOVER	V (BBI C)				
tarting flu	id load to be recovered:	1767	Starting oil		•	0		
	ecovered today:	130	-	vered today:		50	_	
	d to be recovered:	1897	Cum oil reco		-	50		
IFL:	FFL:	FTP:	Choke:		l Fluid	Rate:	Final	oil cut:
: <del>:</del>	etimi ii	ATION DETAIL				COS	STS	· · · · · · · · · · · · · · · · · · ·
امانیا ۳ مید						Pool ri		\$2,30
	used:				V	Veatherford BO		\$130
ompany:		<u></u>						\$55
rocedure	or Equipment detail:					leatherford servic		
						Zubiate HO ti	<u>rk</u>	\$70
. <u> </u>						RNI wtr disposa	<u>al</u>	\$400
1						IPC supervisio	n	\$300
2				-			<del></del>	
							_	
				STATE OF THE PERSON NAMED		CONTRACTOR OF THE PROPERTY OF		
								· · · · · · · · · · · · · · · · · · ·
***								
		4						124
Vocaberrania	The state of the s							
Max TP:	: Max Rate:	Total fluid	i pmpd:					177
Avg TP:		Total Pro	. water-	- Additional and the second			_	DTOCON DECOME DESCRIPTION OF
ISIP		10 min:		G:		DAILY COST	r:	\$4,386
Com	pletion Supervisor:	Gary Dietz			TOTA	AL WELL COST	Γ:	\$112,442





### **DAILY WORKOVER REPORT**

WELL	IAME:	We	lls Draw	24-33B-8-1	6	Rep	ort Date	: Feb	). 27, 2	2003	_			Day	10
	Oper	ation:	Re	complete						Rig:		Pool #	820		_
		<del></del>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	WELL STA	TUS				•				
Surf Csg:	9 5/8	@	310'	Prod Csg:	5 1/2	@	6410'		WT:	17#		Csg PB	TD:	63	29'
Tbg:	Size:	2 7/8	Wt:	6.5#	Grd:	N-80	Pkr <u>/E</u>	<u>от</u> @:	43	71'	BP/ <u>S</u>	and PBT	D:	63	15'
					PERF	ORATION	RECOR	<u>D</u>							-
Zone		<u>Pe</u>	<u>rfs</u>	SPF/#	shots		<u>Z</u>	<u>one</u>			<u>Perfs</u>			SPF/	#shots
GB4 sds	NEW	4430-44	34'	4/16			A3 s	ds	<b>NEW</b>	5434	-5439'			4/20	
GB6 sds	NEW	4469-44	75'	4/24			CP.	sds	<u>NEW</u>	5827	-5832'			4/20	
GB6 sds	NEW	4480-449	92'	4/48			CP1	sds	<u>NEW</u>	5857	-5860'			4/12	
PB10 sds	NEW	4674-46	84'	4/40			CP1	sds	NEW	5875	-5880'			4/20	
D1 sds		4934-49	64'	4/120	<del></del>		CP s	ds		5896	-5900'			4/16	
D2 sds		4992-500	04'	4/48		•	CP s		•	5902	-5914'	,		4/48	
C sds	NEW	5117-512	24'	4/28			CP3	sds	NEW	6000	-6010'	***********		4/40	
Csds	NEW		32'	4/16			CP s	ds		6144	-6154'			4/40	
B .5 sds	NEW			4/12			CP s			6304	-6309'			4/20	
A2 sds		5378-539	94'	4/64					_						
				СН	RONO	LOGICAL	OPERAT	IONS		• •				-	17.81
Date Work	( Perf	ormed:	Feb	. 26, 2003						SITP:	(	<u> </u>	ICP:		0,555

RU HO trk & pump 5 BW dn casing @ 250°F. Steam parrafin from BOP. NU isolation tool. RU Schlumberger Pumping Services and frac GB/PB sds (4430' through 4684') W/ 60,274# 20/40 sand in 661 bbls YF 125 fluid. Perfs broke down @ 967 psi. Treated @ ave press of 1959 psi W/ ave rate of 22.5 BPM. ISIP-2150 psi. RD Schlumberger. Begin immediate flowback of frac on 12/64 choke @ 1 BPM. Zone flowed 4 1/2 hrs & died. Rec 218 BTF (est 33% of frac load). ND isolation tool. TIH W/ RH & N-80 tbg. Tbg displaced 11 BW on TIH. Tag sd @ 4688'. C/O sd to RBP @ 4740'. Circ hole clean W/ no fluid loss. Release plug. TOH & LD 12 jts tbg. SIFN W/ EOT @ 4371'. Est 2334 BWTR.

	FLUI	D RECOVERY (BBL	<u>S)</u>		
Starting fluid load to be recovered	ed: <u>1897</u>	Starting oil rec to da	te:	0	
Fluid <u>lost</u> /recovered today:	437	Oil lost/recovered to	day:	50	
Ending fluid to be recovered:	2334	Cum oil recovered:		50	
IFL: FFL:	FTP:	_ Choke:12/64	Final Flui	d Rate:I	Final oil cut:
STIN	IULATION DETAIL			COST	<u>s</u>
Base Fluid used: YF 125	Job Type:	Sand frac		Pool rig	\$2,792
Company: Schlumberger				Weatherford BOP	\$130
Procedure or Equipment detail:	GB4,	GB6 and PB11 sands	s	chlumberger-GB/PB	\$27,967
**PUMPE	DOWN 5 1/2" 17# CA	SING**	Zub	iate HO trk (frac wtr)	\$2,000
7484 gals of pad			···	Betts frac wtr	\$1,000
3811 gals W/ 2 ppg of 20/40	sand		. Z	ubiate thaw/steam	\$200
3009 gals W/ 3 ppg of 20/40	sand		Tig	er tks (5X14 days)	\$2,800
3659 gals W/ 4 ppg of 20/40	sand			IPC trucking	\$300
4511 gals W/ 5 ppg of 20/40	sand		_	IPC supervision	\$300
1063 gals W/ 6 ppg of 20/40	sand				
Flush W/ 4206 gals of WF 1	10 fluid				*.
**SAND	SCHEDULE WAS RAM	PED**	_		
	25.2 BPM Total fluid p	- Contract of the Contract of	TE MONTH OF THE PERSON NAMED IN COLUMN NAMED I	SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-SA-S	
Avg TP: 1959 Avg Rate:	22.5 BPM Total Prop p				
ISIP: <u>2150</u> 5 min:	10 min:	FG: <u>.91</u>		DAILY COST:	\$37,489
Completion Supervisor:	Gary Dietz		, TO	TAL WELL COST: _	\$149,931



# 13 of 16

WELL N	IAME:	Wells Dr	aw 24-33B-8-16	Report Date	: <u>Feb.</u>	28, 2003		Day: 11
:	Operat	ion:	Re-complete	: -		Rig:	Pool #820	
· · · · · · · · · · · · · · · · · · ·		,_,		WELL STATUS	<del></del>			Alexander Alexander
Surf Csg:	9 5/8	@ 310'	Prod Csg: 5 1			WT: 17#	Csg PBTD:	6329
Tbg:	Size:	2 7/8 V	<i>N</i> t: 6.5# G	rd: <b>J-55</b> Pkr <u>/I</u>	EOT @: _	6126' E	P/ <u>Sand</u> PBTD:	6252
			. · .	ERFORATION RECOR	n			
Zone		Perfs	SPF/#sho		ט. one	Pe	erfs	SPF/#shots
GB4 sds	NEW 4	1430-4434'	4/16			NEW 5434-54		4/20
GB6 sds		1469-4475'	4/24	·····		NEW 5827-58		4/20
GB6 sds		1480-4492'	4/48	<u>CP1</u>		NEW 5857-58		4/12
PB10 sds		1674-4684' 1934-4964'	4/40 4/120	CP1 CP s	<del></del>	NEW 5875-58 5896-59	<del></del>	4/20 4/16
D1 sds D2 sds		1992-5004'	4/48	CP s		5902-59		4/48
C sds		5117-5124'	4/28	CP3		NEW 6000-60		4/40
C sds		5128-5132'	4/16	CP s		6144-61		4/40
B.5 sds		5178-5181'	4/12	<u>CP s</u>	sds	6304-63	09'	4/20
A2 sds		5378-5394'	4/64					
				NOLOGICAL OPERAT	<u> TIONS</u>			
Date Work			Feb. 27, 2003			Zerennen	0 SICP	
Con't To	OH & LI	O frac tbg f/ 4	371'. TIH W/ frac t	bg f/ derrick. TOH & L	D tbg. 7	TIH W/ NC & .	J-55 production	tbg. Tag sd
@ 6252'	(63' nev	/ fill). Pull EO	T to 6126'. SIFN V	V/ est 2334 BWTR.				
T 5								
								in the second
		·						18 18 18 18 18 18 18 18 18 18 18 18 18 1
								**
<u> </u>			FI	UID DECOVERY (BBI	<u>e</u> )			
Starting flu	id load	to be recovere		UID RECOVERY (BBL Starting oil rec to da		50		
Fluid lost/re			0	Oil lost/recovered to		0	<del></del>	
Ending flui			2334	Cum oil recovered:		50		
IFL:		FFL:	FTP:	Choke:	Final	Fluid Rate:	Final	oil cut:
		STIM	ULATION DETAIL			— i ,	COSTS	-12
Base Fluid	used:						Pool rig	\$2,426
Company:	-					Weather	ford BOP	\$130
	or Equi	oment detail:				IPO	trucking	\$200
	<b>~.</b> — •; ··· ;				•	IPC frac tbg		\$4,630
<u>:</u>					_ ·	9	Tbg sub	\$100
						DNII	r transfer	\$400
·		<u> </u>	<del></del>			IPC su	pervision	\$300
						OTHER DESIGNATION OF THE PARTY		
								- 4 V.
			and the second second					
					<del></del>			1 14 14 14
May Th	· · · · · · · · · · · · · · · · · · ·	May Potar	Total flui	d nmnd:	<del></del> ,			1 14 14 14
Max TP		Max Rate:	Total flui					1. Santa
Max TP Avg TP ISIP		Max Rate: Avg Rate: 5 min:	Total flui Total Pro 10 min:			DAIL TOTAL WEL	Y COST:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1



### Atun. 9-1 14 of 16

WELL	NAME:	wells Drav	v 24-33B-8-16	Re	port Date: N	far. 1, 2003		Day: 12
	Operati	on: R	e-complete			Rig: ַ	Pool #820	
				WELL STA	ATUS			
Surf Csg:	9 5/8	@ 310'	Prod Csg: 5		6410'	WT: 17#	Csg PBTD:	6329'
Tbg:	Size:	2 7/8 Wt		Grd: J-55	Pkr/EOT @	D: 6126'	BP/Sand PBTD:	6252'
				BEDEODATION	IBECABA			
7		Dorfo	SPF/#sl	PERFORATION	Zone		<u>Perfs</u>	SPF/#shots
Zone GB4 sds	NIEW 4	<u>Perfs</u> 430-4434'	<u>3FF/#51</u> 4/16	iora	A3 sds	NEW 5434-		4/20
GB6 sds		469-4475'	4/24	-	CP .5 sds			4/20
GB6 sds		480-4492'	4/48		CP1 sds	NEW 5857-		4/12
PB10 sds		674-4684'	4/40		CP1 sds	NEW 5875-		4/20
D1 sds		934-4964'	4/120		CP sds	5896-		4/16
D2 sds	www.	992-5004'	4/48		CP sds	5902-	5914'	4/48
C sds		117-5124'	4/28	··············	CP3 sds	NEW 6000-	6010'	4/40
C sds	NEW 5	128-5132'	4/16	Control of the Contro	CP sds	6144-	6154'	4/40
B.5 sds		178-5181'	4/12	<del></del>	CP sds	6304-	6309'	4/20
A2 sds		378-5394'	4/64			***************************************		
			CHR	ONOLOGICAL	OPERATION	<u>5</u>		· · · · · · · · · · · · · · · · · · ·
Date Wor	k Perfori	med: Fe	b. 28, 2003			SITP:	0 SICP:	: 0
	D (50.		BO) W/ light	<b>3 3</b>				
BWTR.	J. (00.							
BWTR.	``			LUID RECOVE	RY (BBLS)		0	
BWTR.	uid load to	o be recovered:		FLUID RECOVE Starting o	ERY (BBLS) il rec to date:			# M
BWTR.  Starting fluid lost	uid load to	o be recovered: I today:	2334 55	FLUID RECOVE Starting o	ERY (BBLS) il rec to date: covered today:		3	
BWTR.  Starting fluid lost/ Ending fluid	uid load to recovered id to be re	o be recovered: I today:		FLUID RECOVE Starting o Oil lost/ <u>re</u>	ERY (BBLS) il rec to date: covered today: covered:	2	3 2	oil cut: <b>20</b> %
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7	3 2 Final o	oil cut: 20%
BWTR.  Starting fluid lost/ Ending fluid	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered:	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7	3 2 Final o	
BWTR.  Starting fluid lost/ Ending fluid	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate:	3 2 Final of COSTS Pool rig	\$2,536
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath	3 2 Final of COSTS Pool rigerford BOP	\$2,536 \$130
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath	3 2 Final of COSTS Pool rig	\$2,536 \$130
BWTR.  Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	3 2 Final of COSTS Pool rigerford BOP	\$2,536 \$130 \$842
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
BWTR.  Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
BWTR.  Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
BWTR.  Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842 \$300
Starting fl Fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	2 7 nal Fluid Rate: Weath Zuk	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	pal Fluid Rate:  Weath  Zuk  IPC	Final of COSTS Pool rig erford BOP biate HO trk supervision	\$2,536 \$130 \$842 \$300
Starting fluid lost/ Ending flu	uid load to recovered id to be ro 950'	o be recovered: I today: ecovered: FFL: 2200'	2334 55 2389	FLUID RECOVE Starting o Oil lost/ <u>re</u> Cum oil re Choke:	ERY (BBLS) il rec to date: covered today: covered: Fi	nal Fluid Rate:  Weath Zuk IPC	Final of COSTS Pool rig erford BOP biate HO trk	\$2,536 \$130 \$842

Gary Dietz

Workover Supervisor:



Aftan. 4-1 15 ot 16

WELL NAME: Wells Dra	w 24-33B-8-16	Report	Date: M	ar. 2, 20	03		Day: <u>13</u>
Operation: R	e-complete	VIII			Rig: Po	ol #820	<del>-</del>
		WELL STATUS	3				
Surf Csg: 9 5/8 @ 310'	Prod Csg: 5			WT:	17# Cs	g PBTD:	6329'
bg: Size: 2 7/8 W			Pkr/EOT @	: 43C	8' BP/Sand	PBTD:	6329'
							$\frac{V}{V}$
	-	PERFORATION RE			Do of		000/#=beto
Zone Perfs	SPF/#sh		Zone A3 sds	NEW	<u>Perfs</u> 5434-5439'		SPF/#shots 4/20
BB4 sds <u>NEW</u> 4430-4434' BB6 sds <u>NEW</u> 4469-4475'	4/16 4/24	<del></del>	CP .5 sds		5827-5832'		4/20
B6 sds <u>NEW</u> 4480-4492'	4/48		CP1 sds		5857-5860'	_	4/12
'B10 sds NEW 4674-4684'	4/40		CP1 sds		5875-5880'		4/20
01 sds 4934-4964'	4/120		CP sds		5896-5900'		4/16
2 sds 4992-5004'	4/48		CP sds		5902-5914'		4/48
sds <u>NEW</u> 5117-5124'	4/28		CP3 sds		6000-6010'		4/40
sds <u>NEW</u> 5128-5132'	4/16		CP sds		6144-6154'		4/40
3.5 sds <u>NEW</u> 5178-5181'	4/12	·	CP sds		6304-6309'	<del></del>	4/20
2 sds 5378-5394'	4/64	-					
	CHR	ONOLOGICAL OPE	ERATIONS	1			1
ate Work Performed: M	lar. 1, 2003			5	SITP: 0	SICP:	0
	F	LUID RECOVERY (	(BBLS)				47) 12 431
tarting fluid load to be recovered:	<del></del>	LUID RECOVERY ( Starting oil rec			72		
	<del></del>		to date:		47		
luid_lost/recovered today:	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove	to date: <u>ed</u> today: red:		47 119		
luid lost/recovered today: inding fluid to be recovered:	2389 110	Starting oil rec Oil lost/ <u>recover</u>	to date: <u>ed</u> today: red:	nal Fluid	47 119	— — — Final o	oil cut: <u>40</u> %
luid <u>lost</u> /recovered today: inding fluid to be recovered:	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove	to date: <u>ed</u> today: red:	nal Fluid	47 119		oil cut: 40%
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:	nal Fluid	47 119 Rate:	STS	1975 1975
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate: <u>CO</u>	STS ig	\$2,723 \$130
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate: CO: Pool r Veatherford BO	STS ig P	\$2,723 \$130
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate: COS Pool r Veatherford BO Zubiate HO t	STS ig P rk	\$2,723 \$130 \$302
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate: CO: Pool r Veatherford BO Zubiate HO to	STS ig P rk	\$2,723 \$430 \$302 \$300
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate: CO: Pool r Veatherford BO Zubiate HO to	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid <u>lost/</u> recovered today: nding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: Inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$302 \$300 \$200
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$1/30 \$302 \$300 \$200
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$130 \$300 \$300
luid lost/recovered today: inding fluid to be recovered: IFL: 1300' FFL: 1900'	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	STS ig P rk ck	\$2,723 \$1/30 \$302 \$300 \$200
	2389 110 2499	Starting oil rec Oil lost/ <u>recover</u> Cum oil recove Choke:	to date: <u>ed</u> today: red:		47 119 Rate:  Pool r Veatherford BO Zubiate HO to IPC wtr & tructory	ig P rk al on	\$2,723 \$1/30 \$302 \$300 \$200



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	ELL NAMI	Ē: \	vvens Dra	w 24-33B-8-1	6	Report Date:	Ma	r. 4, 2003	_		Day: <u>14</u>
	Оре	eration:	R	e-complete_				Rig:	Poo	1 #820	
	-				WELL	STATUS		<del>- ,</del>	,	<del></del>	
Surf (	Csg: 9 5	/8 @	310'	Prod Csg:		@ 6410'		WT: <u>17#</u>	Csg	PBTD:	6329'
Tbg:	Siz	e: 2 7	7/8 W	t: 6.5#	Grd: J	-55 Anci	or @:	6100'	BP/Sand P	BTD:	6329'
					DEDECOA.	TION RECORI	n				
70	one		Perfs	SPF/#	shots		2 one		Perfs		SPF/#shots
GB4		<u>N</u> 4430-		4/16	<del></del>	A3 sc		NEW 543		_	4/20
GB6		N 4469-		4/24		CP .5		NEW 582		_	4/20
GB6		<u>4480-</u>		4/48	<del></del>	CP1		NEW 585		-	4/12
D1 se		N 4674- 4934-		4/40 4/120	<u> </u>	CP1			3-5000'	-	4/16
D2 s		4992-		4/48		CP s			2-5914'	<b>*</b>	4/48
C sd		N 5117-		4/28	<del></del>	CP3		NEW 600		_	4/40
C sd		<u>√ 5128-</u>		4/16		CP s			4-6154'		4/40
B.5		<u>N</u> 5178-		4/12	· · · · · · · · · · · · · · · · · · ·	<u>CP s</u>	ds	630	4-6309'	-	4/20
A2 s	ds	5378-	5394'	4/64						-	, '
	•		•		<u>IRONOLOGI</u>	CAL OPERAT	IONS				
	Work Per			ar. 3, 2003		, -		SITP		SICP:	
Co	on't TOH V	V/ tbg &	NC f/ 4308	3'. Well blew i	in. Rev circ c	il & gas f/ well	. Lost	120 BW. F	inish TOH W	√ tbgl	DNC. TIH
W/	revised Bh	IA & pro	duction tb	g as follows:	2 7/8 NC, 1 jt	tbg, new SN,	1 jt tbe	g, repaired	Randys' 5 1	/2" IA (	(45K) & 194
jts 2	2 //8 8rd ( T @ 6167	5.5# J-5;	tog. Bith	n 5 jts above 4 000# topsio	SN are used	/inspected tbg ead. TIH W/	numn	8 revised	rod string a	s follow	vs: renaired
Rar	1 (2) 0107 ndve! 2 1/2	. Land " X 1 1/	109 W 1 2" X 16' R	HAC numn f	5-1 1/2" weigt	nt rods, 10-3/4	" scran	ered rods	(added 4 A	grade @	(i) top), 118-
3/4'	" plain rod:	s 41-7/8	?" mixed ro	ods. 68-7/8" s	crapered rod	s, 1-2', 1-4' & :	2-8' X	7/8" ponv r	ods & 1 1/2"	X 22' r	oolished rod
(rep	placed W/	B grade	). Seat pu	ımp & RU pui	mping unit. F	ill tbg W/ 8 B\	N. Pre	ssure test	pump & tbg	to 200	psi. Stroke:
pun	np up W/ ເ	init to 80	0 psi. Go	od pump actio	on. Chg to RD	MOSU. Est 2	627 BV	VTR.			
Pla	ce well or	produc	ction @ 6:	30 PM 3/3/20	03 W/ 82" SL	. @ 7 SPM.					2013.1 3-73-
FIN	IAL REPO	RT!!									
<u> </u>	·				• • • • • • • • • • • • • • • • • • • •						
Ctort	ina fluid la		<del></del>			01/501/7001	<b>~</b> \	··		, <b>,</b>	
	lost/recov	ad to bo	rocovered:	2400		OVERY (BBL			119	· ····	
			recovered:		Starti	ng oil rec to da	te:	· · · · · · · · · · · · · · · · · · ·	119 0	<del> </del>	
	ng fluid to l	ered toda	ay:	2499 128 2627	Startii Oil los		te:			- -	
IFL:			ay:	128	Startii Oil los	ng oil rec to da st/ <u>recovered</u> to oil recovered:	te: day:		0 119	- - _Final c	oil cut:
IFL:	· <u></u>	ered toda be recove FFL:	ay: ered:	128 2627	Startii Oil los Cum c Chok	ng oil rec to da st/ <u>recovered to</u> oil recovered: e:	te: day:		0 119	-	oil cut:
IFL:	· <u></u>	ered toda be recov	ay: ered:	128 2627	Startii Oil los Cum d	ng oil rec to da st/ <u>recovered to</u> oil recovered: e:	te: day:		0 119 ::	TS	
IFL:	TU	ered toda be recove FFL:	ay: ered:	128 2627 FTP:	Startii Oil los Cum c Chok	ng oil rec to da st/ <u>recovered</u> to oil recovered: e: <u>TAIL</u>	te: day:	l Fluid Rate	0 119 :: <u>COS</u>	<u>TS</u>	\$3,217
KB	<u>TU</u>	ered toda be recove FFL: BING DE	ay: ered: ETAIL	128 2627 FTP:	Startii Oil los Cum o Chok ROD DE	ng oil rec to da st/ <u>recovered</u> to oil recovered: e: TAIL	te: day:	I Fluid Rate	0 119 :: <u>COS</u> Pool rig	TS	\$3,217 \$130
KB	15.00' 2 7/8 J-5	ered toda be recove FFL: BING DE	ay: ered: ETAIL 084.95')	128 2627 FTP: 1 1/2' 1-2',	Startii Oil los Cum o Chok ROD DE " X 22' polishe	ng oil rec to da st/ <u>recovered</u> to oil recovered: e: TAIL ed rod	te: day:	I Fluid Rate Wea	0 119 :: <u>COS</u> Pool rig therford BOP ubiate HO trk	TS	\$3,217 \$130 \$1,400
KB 194	15.00' 2 7/8 J-5' TA (2.75'	ered toda be recove FFL: BING DE	ay: ered: ETAIL 084.95')	128 2627 FTP: 1 1/2' 1-2', 68-7/	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods	te: day:	I Fluid Rate Wea Z 5 jts	0 119 b: COS Pool rig therford BOP ubiate HO trk is B grade tbg	TS	\$3,217 \$130 \$1,400 \$450
KB	15.00' 2 7/8 J-5 TA (2.75' 2 7/8 J-5	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31	ay: ered: ETAIL 084.95') 0.95' KB)	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods	ng oil rec to da st/recovered to oil recovered: e: TAIL ed rod 8" pony rods rods	te: day:	I Fluid Rate Wea Z 5 jts	0 119 :: COS Pool rig therford BOP ubiate HO trk s B grade tbg	TS	\$3,217 \$130 \$1,400 \$450 \$500
KB 194	15.00' 2 7/8 J-5' TA (2.75' 2 7/8 J-5 SN (1.10	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31	ay: ered: ETAIL 084.95') 0.95' KB) 1.37') 4.07' KB)	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods	te: day:	I Fluid Rate Wea Z 5 jt	0 119 ::  COS:  Pool rig therford BOP ubiate HO trk s B grade tbg dditional rods I wtr disposa	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400
KB 194	15.00' 2 7/8 J-5: TA (2.75' 2 7/8 J-5: SN (1.10) 2 7/8 J-5:	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31 6 6134 5 tbg (31	ay: ered: ETAIL 084.95') 0.95' KB) 1.37') 4.07' KB)	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods 4" scrapered	ng oil rec to da st/recovered to oil recovered: e: TAIL ed rod 8" pony rods rods	te: day:	Vea Z 5 jt: AN Mt. W	O 119 ::  COS Pool rig therford BOP ubiate HO trk s B grade tbg dditional rods I wtr disposal	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400
KB 194 1	15.00' 2 7/8 J-5' TA (2.75' 2 7/8 J-5' SN (1.10) 2 7/8 J-5' 2 7/8 NC	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31 ' @ 6134 5 tbg (31 (.40')	ay: ered: 	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/ 6-1 1	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods 4" scrapered	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods s	te: day:	Wea Z 5 jt: An RN Mt. W	O 119 EXECUTE:  COS Pool right therford BOP ublate HO trkes B grade they diditional rods I wtr disposalest sanitation ab tks (2X14)	T <u>S</u>	\$3,217 \$130 \$1,400 \$450 \$500 \$400 \$400 \$1,120
KB 194 1	15.00' 2 7/8 J-5: TA (2.75' 2 7/8 J-5: SN (1.10) 2 7/8 J-5:	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31 ' @ 6134 5 tbg (31 (.40')	ay: ered: 	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/ 6-1 1. Rand	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods 4" scrapered /2" weight roc lys 2 1/2" X 1	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods s rods ls	te: day:	Wea Z 5 jt: An RN Mt. W	O 119 EDENTIFY TO THE PROPERTY OF THE PROPERTY	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400 \$400 \$1,120
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KB 194 1	15.00' 2 7/8 J-5' TA (2.75' 2 7/8 J-5' SN (1.10) 2 7/8 J-5' 2 7/8 NC	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31 ' @ 6134 5 tbg (31 (.40')	ay: ered: 	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/ 6-1 1. Rand	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods 4" scrapered /2" weight roc lys 2 1/2" X 1	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods s rods ls	te: day:	Wea Z 5 jt: An RN Mt. W IPC swi	O 119 EDENTIFY TO THE PROPERTY OF THE PROPERTY	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400 \$1,120 \$300 \$200
KB 194 1	15.00' 2 7/8 J-5' TA (2.75' 2 7/8 J-5' SN (1.10) 2 7/8 J-5' 2 7/8 NC	ered toda be recove FFL: BING DE 5 tbg (60 @ 6099 5 tbg (31 ' @ 6134 5 tbg (31 (.40')	ay: ered: 	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/ 6-1 1. Rand	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 3/4" plain rods 4" scrapered /2" weight roc lys 2 1/2" X 1	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods s rods ls	te: day:	Wea Z 5 jt: An RN Mt. W IPC swi	O 119 EXECUTE:  COS Pool right therford BOP ublate HO trkes B grade tbg dditional rods I wtr disposal est sanitation ab tks (2X14) ation cleanup IPC trucking	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400 \$1,120 \$300 \$200
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KB 194 1	15.00' 2 7/8 J-5' TA (2.75' 2 7/8 J-5' SN (1.10) 2 7/8 J-5' 2 7/8 NC	ered toda be recove FFL: 5 tbg (60 @ 6099 5 tbg (31 ( @ 6134 5 tbg (31 ( .40') W/ 15' K	ay: ered: 	128 2627 FTP: 1 1/2' 1-2', 68-7/ 41-7/ 118-3 10-3/ 6-1 1. Rand	Startii Oil los Cum o Chok ROD DE " X 22' polishe 1-4', 2-8' X 7/ 8" scrapered 8" mixed rods 8/4" plain rods 4" scrapered /2" weight roc lys 2 1/2" X 1 C pump W/ S	ng oil rec to da st/recovered to bil recovered: e: TAIL ed rod 8" pony rods rods s rods ls	te: day:	Wea Z 5 jt: An RN Mt. W IPC switched IPC local	O 119 EXECUTE:  COS Pool right therford BOP ublate HO trkes B grade tbg dditional rods I wtr disposal est sanitation ab tks (2X14) ation cleanup IPC trucking	TS	\$3,217 \$130 \$1,400 \$450 \$500 \$400 \$1,120 \$300 \$200

### ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1.		Set CIBP (a) 4395?
2.	Plug #1	Set 100' plug on top of CIBP using 12 sx Class "G" cement
3.		Perforate 2 JSPF @ 2200'
4.		Set CICR @ 2150'
5.	Plug #2	Trona/Birds Nest (200' plug w/0' excess) with 36 sx Class "G" cement below CICR and 17 sx Class "G" cement above CICR.
6.		Perforate 4 JSPF @ 360'
7.	Plug #3	Circulate 115 sx Class "G" cement down the 5-1/2" casing and up the 5-1/2" x 9-5/8" annulus

The approximate cost to plug and abandon this well is \$35,401.

Attachment H-1

### Federal #24-33B-8-16

Spud Date: 8-15-88 Put on Production: 10-9-88 GL: 5715' KB: 5730'

Initial Production: 37 BOPD, 0 MCFD

0 BWPD

Proposed P & A Wellbore Diagram

SURFACE CASING CSG SIZE: 9-5/8" GRADE: L-80, N-80 Circulate 115 sx Class G Cement down 5 -1/2" casing and up the WEIGHT: 47#, 53.5# 5-1/2" x 9-5/8" annulus LENGTH: 7 JTS (295.8') Casing Shoe @ 310' DEPTH LANDED: 310' HOLE SIZE: 12-1/4" Perforate 4 JSPF @ 360' CEMENT DATA: 165 skx Class "G"cmt, est ? bbls to surface PRODUCTION CASING 17 sx Class G Cement plug on top of CICR CSG SIZE: 5-1/2" / 17# / K-55 Trona/Birds Nest CICR @ 2150' LENGTH: 5564' 200' Plug w/0' excess 36 sx Class G Cement plug below CICR CSG SIZE: 5-1/2" / 17# / N-80 Perforate 2 JSPF @ 2200' LENGTH: 5564' - 6410' SET AT: 6410'KB Cement Top @ 2405' HOLE SIZE: 7-7/8" CEMENT DATA: 125 sks Hi-Lift & 500 Class "G" cement. CEMENT TOP AT: 2405' Spot inhibited water between cement plugs 100' (12 sx) Class G Cement plug on top of CIBP CIBP @ 4395' 4430'-4434' 4469'-4475' 4480'-4492' 4674'-4684' 4934'-4964' 4992'-5004' 5117'-5124' 5128'-5132' 5178'-5181' 5378'-5394' 5434'-5439' 5827'-5832' 5857'-5860' 5875'-5880' 5896'-5900' 5902'-5914' 6000'-6010' 6144-6154 6304'-6309' NEWFIELD PBTD @ 6329'KB

SHOE @ 6410'

TD @ 6411'KB

Federal #24-33B-8-16 2103 FWL & 330 FSL SE/SW Section 33-T8S-R16E Duchesne Co, Utah API #43-013-31214; Lease #UTU-49092 FORM 3160-5 (September 2001)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

Lease Serial No. USA UTU-49092

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.				ottee or Tribe Name.	
SUBMIT IN T	RIPLICATE - Other	Instructions on reverse side	7. If Unit or CA	/Agreement, Name and/or	
	1966年1月1日 1966年1		WELLS DRA	WELLS DRAW UNIT	
1. Type of Well Gas Well	Other		8. Well Name a	nd No	
Oil Well Gas Well  2. Name of Operator	Oner		FEDERAL 2		
NEWFIELD PRODUCTION CO	OMPANY		9. API Well No		
3a. Address Route 3 Box 3630		3b. Phone (include are code			
Myton, UT 84052		435.646.3721		ool, or Exploratory Area	
4. Location of Well (Footage, 330 FSL 2103 FWL	Sec., T., R., M., or Survey D	description)	MONUMENT 11. County or P		
SESW Section 33 T8S R16F			DUCHESNE	, UT	
12. CHECI	K APPROPRIATE BC	X(ES) TO INIDICATE NATU	DRE OF NOTICE, OR C	OTHER DATA	
TYPE OF SUBMISSION		TYPE OI	F ACTION		
Notice of Intent Subsequent Report Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Reclamation	☐ Water Shut-Off ☐ Well Integrity ☐ Other	
			· · · · · · · · · · · · · · · · · · ·		
				RECEIV	
				MAR 1 1 2001	
		·		DIV. OF OIL, GAS &	
I hereby certify that the foregoing	is true and	Title			
correct (Printed/ Typed)		Regulatory Analys	1		
Eric Sundberg Signature		Date			
Ei Fr		3/1/08			
	THIS SPAC	E FOR FEDERAL OR STAT	TE OFFICE USE		
Approved by	المستعدد الم	Title		Date	
Conditions of approval, if any, are atta certify that the applicant holds legal or which would entitle the applicant to co	equitable title to those rights in	the subject lease Office			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction



Lieutenant Governor

### State of Utah

### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

April 30, 2008

Newfield Production Company 1401 17<sup>th</sup> Street, Suite 1000 Denver, Colorado 80202

Re: Wells Draw Unit Well: Wells Draw Federal 24-33-8-16, Section 33, Township 8 South, Range 16

East, Duchesne County, Utah

Mr. Eric Sundberg,

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
- 3. A casing\tubing pressure test shall be conducted prior to commencing injection.

The Division will issue an Underground Injection Control Permit after the above stipulations have been meet. If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill or Dan Jarvis at this office.

Sincerely,

Gil Hunt

Associate Director

cc: Dan Jackson, Environmental Protection Agency

Bureau of Land Management, Vernal Newfield Production Company, Myton

**SITLA** 

**Duchesne County** 

Well File



# DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM PERMIT STATEMENT OF BASIS

<b>Applicant:</b> Newfield Production Co	<u>ompany</u> Well: <u>V</u>	Well: Wells Draw Federal 24-33-8-16		
<b>Location:</b> 33/8S/16E	API:	43-013-31214		

Ownership Issues: The proposed well is located on Federal land. The well is located in the Wells Draw Unit. Lands in the one-half mile radius of the well are administered by the BLM and State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review. Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Wells Draw Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 310 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,410 feet. A cement bond log demonstrates adequate bond in this well up to 3,906 feet. A 2 7/8 inch tubing with a packer will be set at 4,445 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 6 producing wells, 4 injection wells and 2 shut-in wells in the area of review. All of the wells have evidence of adequate casing and cement. No other corrective action will be required.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is approximately 670 feet. Injection shall be the interval between 4,509 feet and 6,232 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 24-33-8-16 well is .73 psi/ft which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,565 psig. The requested maximum pressure is 1,565 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

## Wells Draw Federal 24-33-8-16 page 2

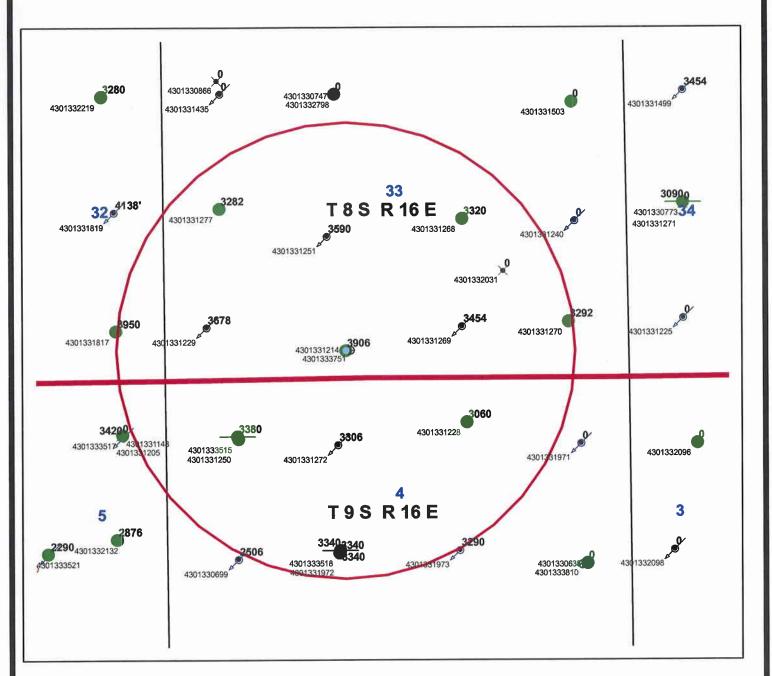
Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Wells Draw Unit December 1, 1993. Correlative rights issues were addressed at that time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM.

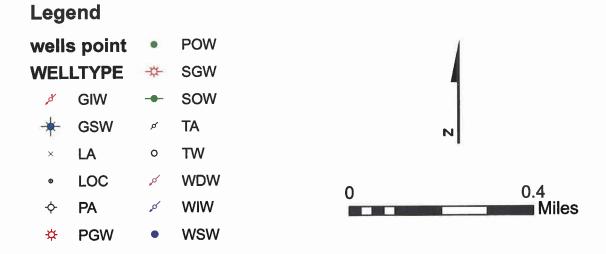
Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s):	Clinton Dworshak	Date	04/24/2008
		· · · · · · · · · · · · · · · · · · ·	



## Wells Draw Federal 24-33-8-16



NOTICE OF AGENCY ACTION CAUSE NO. UIC 346

BEFORE THE DIVI-SION OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURC-ES

STATE OF UTAH THESTATEOFUTAH TO ALL PERSONS IN-TERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of the Newfield Exploration Company for administrative approval of the Monument Butte 10-25-8-16

well, located in NW/4: Se/4 Section 25, Monument Butte 16-25-8-16 well, located SE/4 SE/4 in Section 25, Gavilan State 22-32-8-16 well, located in SE/4 NW/4 Section 32, State 33-32-8-16 well, located in NE/4 SE/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 SW/4 Section 33. Monument Butte 8-35-8-16 well, located in SE/4 NE/4 Section 35, Monument Butte 6-36-8-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NE/4 Section 5, Salt Lake Meridian, Duchesne. Utah, for onversion to a Class II injection well. These wells are located in the Monument Butte and Wells Draw Units respectively. The adjudicative proceedings will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Newfield Exploration Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their inter-

Dated this 21st day of March, 2008

STATE OF UTAH DIVISION OF OIL, GAS & MINING Gil Hunt

Associate Director Published in the Uintah Basin Standard March 25, 2008.

## NOTICE OF AGENCY ACTION BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH CAUSE NO. UIC 346

CAUSE NO. UIC 346

IN THE MATTER OF THE APPLICATION OF NEWFIELD EXFLORATION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE MONUMENT BUTTE 10-25-8-16, MONUMENT BUTTE 16-25-8-16 WELLS 10-25-8-16, MONU25, GAVILAN STATE 22-32-8-16, STATE 33-32-8-16,
WELLS 10-CATED IN SECTION 32; WELLS DRAW FEDERAL 24-33-8-16 WELL 10-CATED IN SECTION 33,
MONUMENT BUTTER 8-35-8-16 WELL 10-CATED IN
SECTION 35 MONUMENT BUTTER 6-36-8-16 WEL
10-CATED IN SECTION 36, TOWNSHIP 8 SOUTH, RANGE
16-EAST, WELLS DRAW 8-5-9-16 WELL 10-CATED
UCHESNE COUNTY, UTAH, AS CLASS II INJECTION
WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal diudicative proceeding to consider the application of the Newfield Exploration Company for administrative approval of the Monument Butte 10-25-8-16 well, located in NW/4 Se/4 Section 25, Monument Butte 10-25-8-16 well, located in SE/4 NW/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 NW/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 NW/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 NW/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 NW/4 Section 32, Wells Draw Federal 24-33-8-16 well, located in SE/4 NW/4 Section 35, Monument Butte 6-36-8-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located with SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located with SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located with SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 36, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 37, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells Draw 8-5-9-16 well, located in SE/4 NW/4 Section 38, Wells

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Newfield Exploration Company

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Gil Hunt, Associate Director, at P.O. Box 145801, Saft Lake City, Utah 84:114-5801, prome number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 21st day of March, 2008

STATE OF UTAH DIVISION OF OIL, GAS & MINING

/s/ Gil Hunt Associate Director

UPAXLP

261164

### STATE OF UTAH

DIVISION OF OIL, GAS AND MINING				5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-49092	
SUNDRY NOTICES AND REPORTS ON WELLS				6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.				7. UNIT or CA AGREEMENT NAME: WELLS DRAW UNIT	
1. TYPE OF WELL: OIL WELL	x GAS WELL □ OTHER			8. WELL NAME and NUMBER: FEDERAL 24-33B	
2. NAME OF OPERATOR:	OAS WEEL OTHER			9. API NUMBER:	
NEWFIELD PRODUCTION COM	IPANY			4301331214	
3. ADDRESS OF OPERATOR:			PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:	
Route 3 Box 3630	CITY Myton STATE UT	ZIP 84052	435.646.3721	MONUMENT BUTTE	
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 330 FSL 21	03 FWL			COUNTY: DUCHESNE	
OTR/OTR. SECTION. TOWNSHIP. RANGE.	MERIDIAN: SESW, 33, T8S, R16E			state: UT	
11. CHECK APPROL	PRIATE BOXES TO INDICAT	E NATURE (	OF NOTICE, REF	PORT, OR OTHER DATA	
TYPE OF SUBMISSION		TY	PE OF ACTION		
	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION	
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE	ГКЕАТ	SIDETRACK TO REPAIR WELL	
Approximate date work will	CASING REPAIR	NEW CONST	RUCTION	TEMPORARITLY ABANDON	
Approximate date from the	CHANGE TO PREVIOUS PLANS	OPERATOR	CHANGE	TUBING REPAIR	
<u>.</u>	CHANGE TUBING	PLUG AND A		VENT OR FLAIR	
X SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		water disposal	
SUBSEOUENT REPORT (Submit Original Form Only)		=		WATER SHUT-OFF	
Date of Work Completion:		=	ON (START/STOP)	=	
04/22/2000	COMMINGLE PRODUCING FORMATIONS	_	ION OF WELL SITE	OTHER: -	
04/23/2009	X CONVERT WELL TYPE	RECOMPLET	TE - DIFFERENT FORMATION	N	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  The above listed well was converted from a producing oil well to an injection well on 4/23/09.  On 4/28/09 Dennis Ingram with the State of Utah (DOGM) was contacted concerning the MIT on the above listed well. Permission was given at that time to perform the test on 4/29/09. On 4/29/09 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was a State representative available to witness the test.  (Dennis Ingram)  API # 43013-31214					
Callia Da			Braduation Class		
NAME (PLEASE PRINT) Callie Ross TITLE Production Clerk				n.	
SIGNATURE Callet Not DATE 05/01/2009					

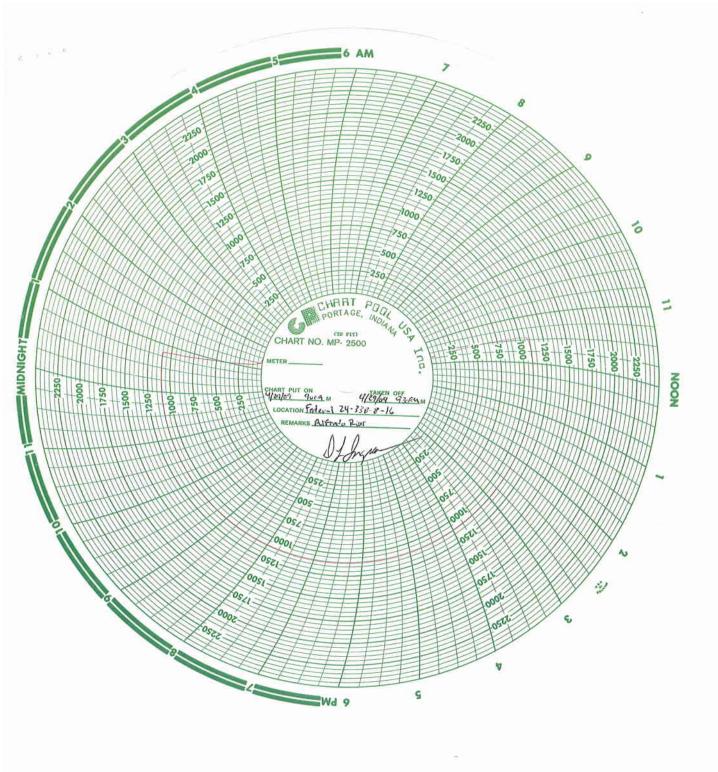
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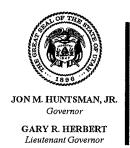
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# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company Rt. 3 Box 3630 Myton, UT 84052 435-646-3721

Witness: Denois Ingram  Test Conducted by: PiFredo Rios  Others Present:	Date <u>4</u> / <u>29</u> / <u>o9</u>	Time <u>9:00</u> (âm) pm
Well: Federal 24-33B-8-16 Well Location: SE/SW SEC. 33, T83, RI Duchesne County, UTAH.	Field: Monor	
<u><b>Time</b></u> 0 min  5		psig psig
10 15 20 25	1100	psig psig psig psig
30 min 35 40 45		osig osig osig osig
50 55 60 min Tubing pressure:		osig osig osig osig
Decult	Pass Fa	





# State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

#### Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-346

Operator:

Newfield Production Company

Well:

Wells Draw Federal 24-33-8-16

Location:

Section 33, Township 8 South, Range 16 East

County:

Duchesne

API No.:

43-013-31214

Well Type:

Enhanced Recovery (waterflood)

#### **Stipulations of Permit Approval**

1. Approval for conversion to Injection Well issued on April 30, 2008.

2. Maximum Allowable Injection Pressure: 1,565 psig

3. Maximum Allowable Injection Rate: (restricted by pressure limitation)

4. Injection Interval: Green River Formation (4,509' - 6,232')

Approved by:

Gil Hunt

Date

Associate Director

GLH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency
Bureau of Land Management, Vernal
Eric Sundberg, Newfield Production Company, Denver
Newfield Production Company, Myton
SITLA
Duchesne County

Well File

DNR

#### STATE OF UTAH

٤	DEPARTMENT OF NATURAL R DIVISION OF OIL, GAS AN		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-49092
SUNDRY	NOTICES AND REPO		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to dri	ill new wells, significantly deepen existing wells be	pelow current bottom-hole depth, reenter plugged	7. UNIT OF CA AGREEMENT NAME: WELLS DRAW UNIT
1. TYPE OF WELL: OIL WELL		O DICELLO SOUR FOR SOURCE	8. WELL NAME and NUMBER: FEDERAL 24-33B
2. NAME OF OPERATOR:			9. API NUMBER:
NEWFIELD PRODUCTION COM	PANY		4301331214
3. ADDRESS OF OPERATOR:		PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
Route 3 Box 3630  4. LOCATION OF WELL:	CITY Myton STATE UT	ZIP 84052 435.646.3721	MONUMENT BUTTE
FOOTAGES AT SURFACE: 330 FSL 21	03 FWL		COUNTY: DUCHESNE
OTR/OTR. SECTION. TOWNSHIP. RANGE,	MERIDIAN: SESW, 33, T8S, R16E		STATE: UT
11. CHECK APPROP	PRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
X NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will	CASING REPAIR	NEW CONSTRUCTION	TEMPORARITLY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
05/20/2009	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLAIR
	<u>                                     </u>	PLUG BACK	WATER DISPOSAL
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	· <b>=</b>	
Date of Work Completion:	CHANGE WELL STATUS	PRODUCTION (START/STOP)	WATER SHUT-OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER: - Change status put well on injection.
	X CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
	MPLETED OPERATIONS. Clearly show was put on injection at 10:30 am on	all pertinent details including dates, depths, v 5-20-09.	
Valor Chamma		TITLE Office Manager	
NAME (PLEASE PRINT) Kathy Chapman	$ \beta_{I}$	TITLE_Office Manager	
SIGNATURE Sather	Magn	DATE 05/20/2009	

(This space for State use only)

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#### Daily Activity Report 43 013 31214 Format For Sundry

FEDERAL 24-33B-8-16 2/1/2009 To 6/30/2009 TO 85 R 16F 5-33

4/22/2009 Day: 1

Conversion

Nabors #1111 on 4/21/2009 - MIRU Nabors #1111. Hot oiler had pumped 60 BW down csg @ 250°. RD pumping unit. Could not get pump to unseat. Pump 30 BW down csg @ 250°. Unseat rod pump. Flush tbg & rods w/ 30 BW @ 250°. Soft seat rods & pump. Pressure test tbg to 3000 psi. LD polished rod, 1-2', 4' & 2-8' x 3/4" ponies & 53- 3/4" guided rods. SWIFN.

4/23/2009 Day: 2

Conversion

Nabors #1111 on 4/22/2009 - Hot oiler had flushed tbg & rods w/ 55 BW @ 250°. LD rods as follows: 68- 7/8" guided rods, 118- 3/4" plain rods, 10- 3/4" guided rods, 6- 1 1/2" weight rods & pump. ND wellhead. X-over for tbg equipment. TA was not set. NU BOPs. RU rig floor. TOOH w/ 128- jts 2 7/8" J-55 tbg (breaking collars, applying Liquid O-ring to threads & talleying). Flush tbg w/ 40 bw @ 250°. SWIFN.

#### 4/24/2009 Day: 3

Conversion

Nabors #1111 on 4/23/2009 - Flush tbg w/ 20 BW @ 250°. LD 58- jts 2 7/8" tbg on trailer. MU & TIH w/ Arrowset 1-X packer, SN, & 138- jts 2 7/8" J-55 6.5# tbg. Flush tbg w/ 30 BW. Drop standing valve & pump down tbg. Pressure test tbg to 3000 psi. Had to bleed air off tbg & retest several times. Held pressure test for 30 min w/ 0 psi loss. RU sandline & RIH w/ fishing tool on sandline & retrieve standing valve. RD rig floor. ND BOPs. NU wellhead. Pump 70 bbls packer fluid down tbg-csg annulus. Set AS-1X packer w/ CE @ 4347' & EOT @ 4352' w/ 15,000# tension. Pressure annulus to 1500 psi. Held pressure test for 30 minutes w/ 0 psi loss. Ready for MIT!

#### 4/30/2009 Day: 4

Conversion

Rigless on 4/29/2009 - On 4/28/09 Dennis Ingram with the State of Utah DOGM was contacted concerning the MIT on the above listed well (Wells Draw 24-33B-8-16). Permission was given at that time to perform the test on 4/29/09. On 4/29/09 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test . The tbg pressure was 0 psig during the test. There was a State representative available to witness the test. (Dennis Ingram) Final Report! API # 43013-31214

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JUL 2 0 2009

DIV. OF OIL, GAS & MINING

#### FORM 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

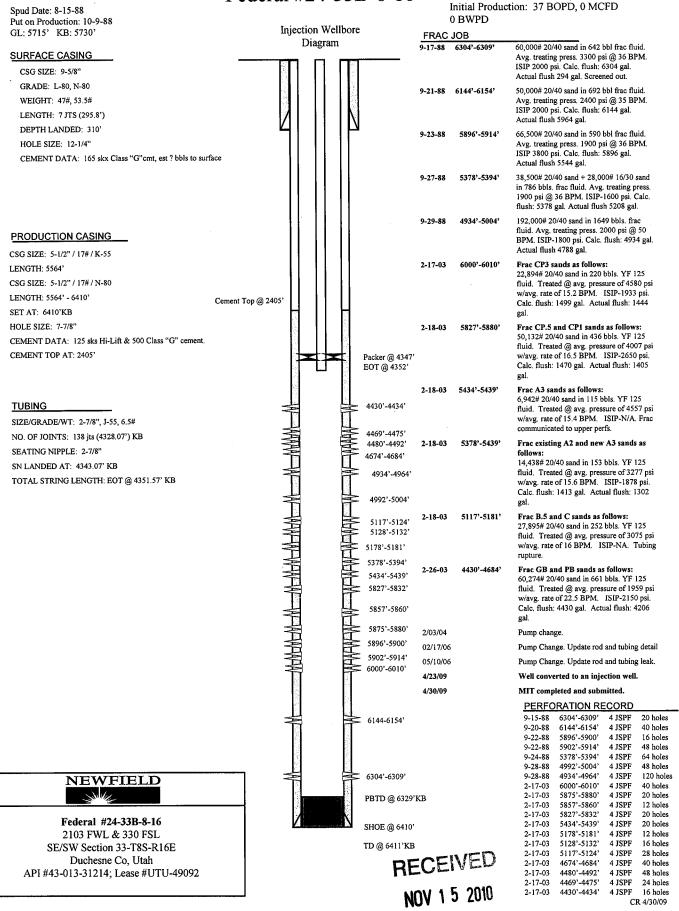
FORM	4 AI	PR	OVE	ED
OMB I	No.	100	4-01	31
Expire	s: Jı	ılv 3	1.20	1(

	BUREAU OF LAND MANAC			5. Lease Serial N	ło.
	NOTICES AND REPOR			USA UTU-490	92
Do not use the abandoned we	his form for proposals to c ell. Use Form 3160-3 (APD	drill or to re-enter  )) for such propos	an als.	6. If Indian, Allot	ttee or Tribe Name.
SUBMIT IN	TRIPLICATE - Other In	structions on pag	e 2	7. If Unit or CA/A	Agreement, Name and/or
1. Type of Well				GMBU	,
Oil Well Gas Well	Other			8. Well Name and	d No.
2. Name of Operator				FEDERAL 24-3	33B
NEWFIELD PRODUCTION CO				9. API Well No.	
3a. Address Route 3 Box 3630		·	are code)	4301331214	
Myton, UT 84052		435.646.3721			ol, or Exploratory Area
	Sec., T., R., M., or Survey Descript	ion)		GREATER MB	
330 FSL 2103 FWL				11. County or Par	rish, State
SESW Section 33 T8S R16E				DUCHESNE,	
12. CHECK	APPROPRIATE BOX(ES	) TO INIDICATE	NATURE OF N	OTICE, OR O	THER DATA
TYPE OF SUBMISSION		Т	YPE OF ACTION		
Notice of Intent	☐ Acidize	Deepen	Production	on (Start/Resume)	☐ Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	Reclamat	ion	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recompl	ete	☑ Other
	Change Plans	Plug & Abandon		rily Abandon	UIC Permit Revision
Final Abandonment	Convert to Injector	Plug Back	Water Di	sposal	
The original permit inject actual existing well perfo		Approved b Utah Divisio Oil, Gas and	y the on of Mining	tion interval of 4	COPY SENT TO OPERATOR  Date: 11.18.2010 Initiale: VS
I hereby certify that the foregoing is correct (Printed/ Typed)  Eric Sundberg	s true and	Title  Regulatory	· Lead		
Signature	e e	-Date 11/09/2010	)		
	THIS SPACE FO	R FEDERAL OR	STATE OFFIC	E USE	
		T	tla	Da	ate
Approved by Conditions of approval, if any, are attack	hed. Approval of this notice does not w		tle		110
certify that the applicant holds legal or e which would entitle the applicant to con	equitable title to those rights in the subjective operations thereon.	ect lease O	ffice		
Title 18 U.S.C. Section 1001 and Title 4	3 U.S.C. Section 1212, make it a crime	for any person knowingly	and willfully to make to	any department or as	gency of the United

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction (Instructions on page 2)

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#### Federal #24-33B-8-16

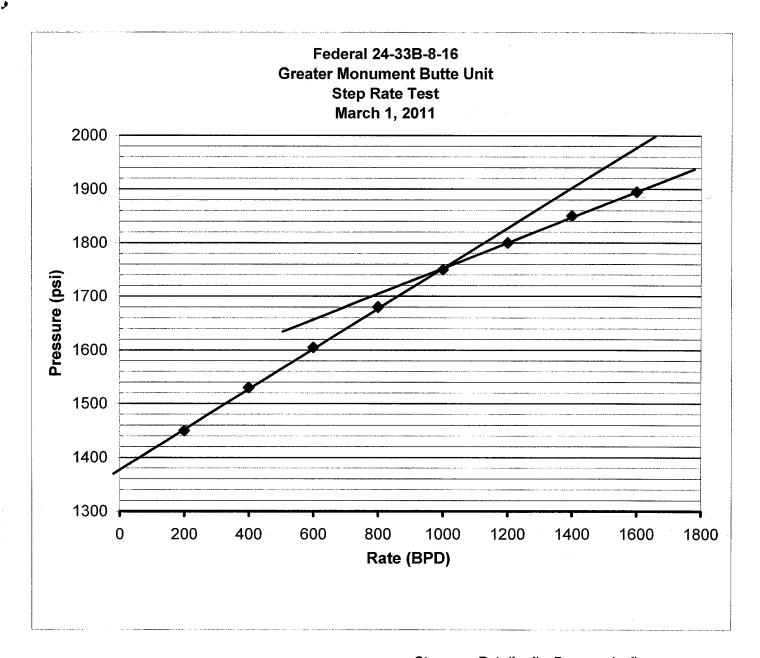


## STATE OF UTAH

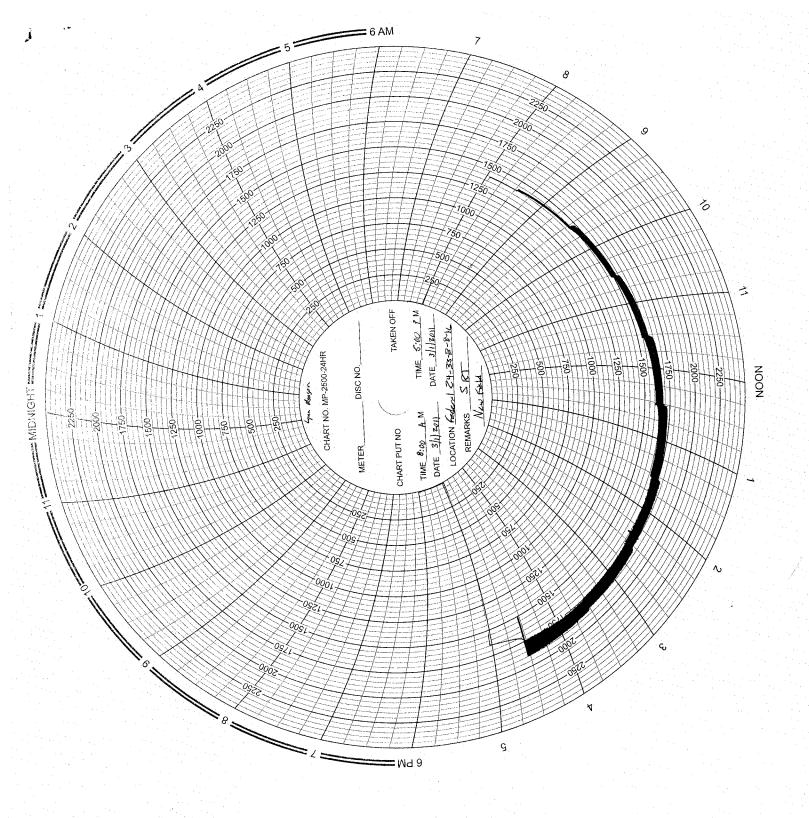
	DEPARTMENT OF N DIVISION OF OIL				5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-49092
SUNDRY	NOTICES AN	D REPOR	RTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to dri		existing wells below	v current bottom-	nole depth, reenter plugged	7. UNIT or CA AGREEMENT NAME: GMBU
1. TYPE OF WELL: OIL WELL		OTHER WI		я ргорозаіs.	8. WELL NAME and NUMBER: FEDERAL 24-33B
2. NAME OF OPERATOR:			······································		9. API NUMBER:
NEWFIELD PRODUCTION COM	IPANY		· · · · · · · · · · · · · · · · · · ·		4301331214
3. ADDRESS OF OPERATOR: Route 3 Box 3630	orma Marton om	Amp III	ZIP 84052	PHONE NUMBER	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL:	CITY Myton ST	ATE UT	ZIP 84032	435.646.3721	GREATER MB UNIT
FOOTAGES AT SURFACE: 330 FSL 21	03 FWL				COUNTY: DUCHESNE
OTR/OTR SECTION. TOWNSHIP, RANGE,	MERIDIAN: SESW, 33, T8S,	R16E			STATE: UT
11. CHECK APPROP	PRIATE BOXES TO	INDICATE I	NATURE (	OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION			TY	PE OF ACTION	
П	ACIDIZE		DEEPEN		REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)	ALTER CASING	Ì	FRACTURE T	REAT	SIDETRACK TO REPAIR WELL
•	CASING REPAIR	,	NEW CONST		TEMPORARITLY ABANDON
Approximate date work will	CHANGE TO PREVIOUS PLA	ANIC	OPERATOR		TUBING REPAIR
	I <b>=</b>	1113			_
	CHANGE TUBING	1	PLUG AND A	BANDON	
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	i	PLUG BACK		WATER DISPOSAL
Date of Work Completion:	CHANGE WELL STATUS		PRODUCTIO	N (START/STOP)	WATER SHUT-OFF
Date of Work Completion.	COMMINGLE PRODUCING	FORMATIONS	RECLAMATI	ON OF WELL SITE	OTHER: - Step Rate Test
03/01/2011	CONVERT WELL TYPE		RECOMPLET	E - DIFFERENT FORMATION	
	cted on the subject well	on March 1, 2	011. Result	s from the test indicate	e that the fracture gradient is 0.835 changed from 1565 psi to 1750 psi.
					COPY SENT TO OPERATOR
		A	proveದ	oy une	Date: 4.6.2011
		U	proved tah Divis	ion oi	1/ <
		Oil,	Gas and	) Mining	Initials: <u>KS</u>
		Date:	DV-05	all of	
NAME (PLEASE PRINT) Lucy Chavez-N	laupoto .			rttle_ Administrative Assi	stant
SIGNATURE ALLY	O. yar		1	DATE03/03/2011	
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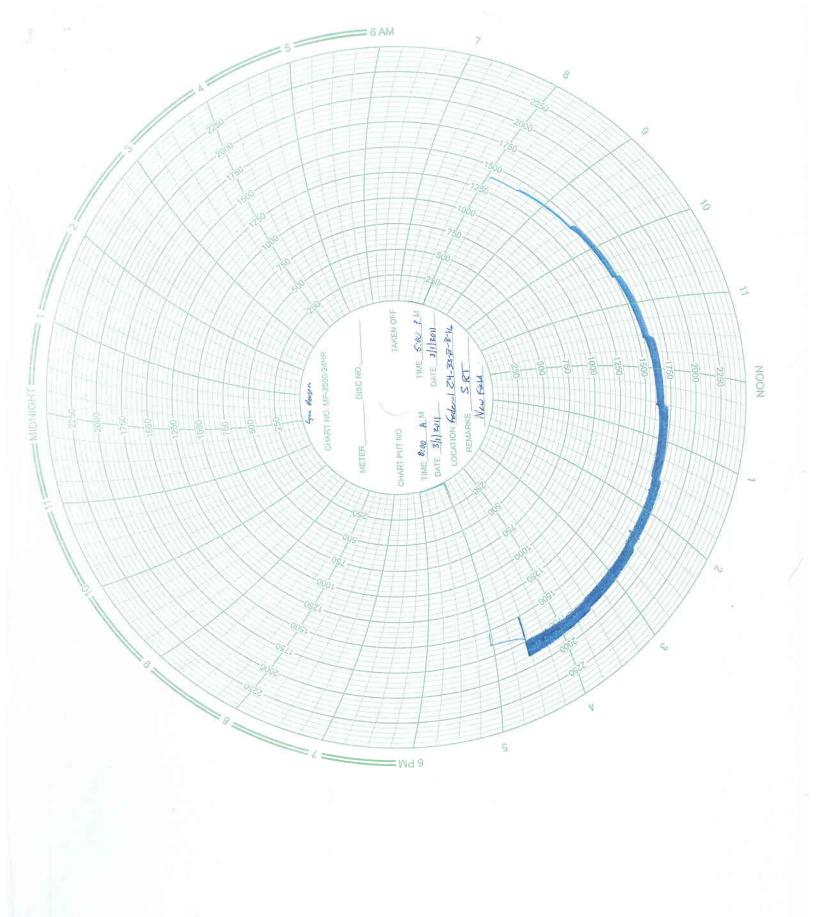
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MAR 08 2011



			Step	Rate(bpd)	Pressure(psi)
Start Pressure:	1400	psi	1	200	1450
			2	400	1530
Top Perforation:	4430	feet	3	600	1605
Fracture pressure (Pfp):	1750	psi	4	800	1680
FG:	0.835	psi/ft	5	1000	1750
			6	1200	1800
			7	1400	1850
			8	1600	1895



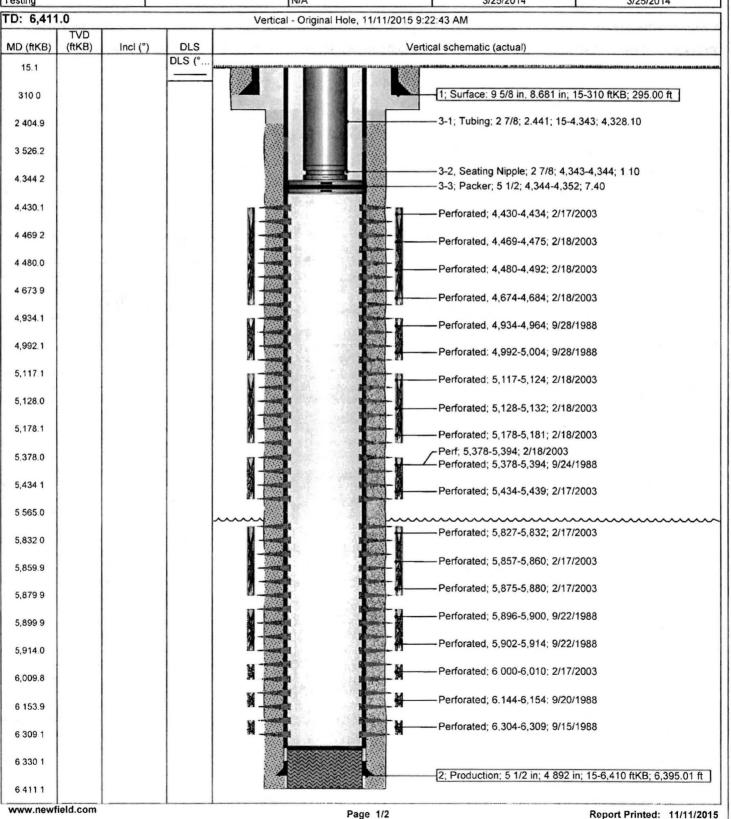


# NEWFIELD

#### **Schematic**

43-013-31214

Well Name: Federal 24-33B-8-16 Surface Legal Locatio State/Province Field Name County 33-8S-16E 43013312140000 500150815 Utah GMBU CTB4 Duchesne Rin Release Date On Production Date Original KB Elevation (ft) Total Depth All (TVD) (ftKB) Soud Date Ground Flevation iffi PBTD (All) (ftKB) 8/18/1988 8/30/1988 10/1/1988 Original Hole - 6,329.0 5.730 5,715



# NEWFIELD

## Newfield Wellbore Diagram Data Federal 24-33B-8-16

3-8S-16E					43013312140000		l.ease		
ounty Duchesne		State/Province Utah			Basin Field Name GMBU CTB4				
Vell Start Date		Spud Date			Final Rig Release Date		On Production Date		
8/15/1988  Priginal KB Elevation (ft) Ground Eleva	tion (ft)	Total Depth (ftk	8/18/1	1988	8/30/1988 Total Depth All (TVD) (ftKB)		10/1/1988 IPBTD (All) (f(KB)		
5,730	5,715			6,411.0			Original Hole - 6,32	9.0	
Casing Strings									
Csg Des Surface		Run Da 8/18/1988	ate	OD (in) 9 5/8	ID (in) 8.681	Wt/Len (lb/ft) 47.00	Grade N-80	Set Depth (ftk'B)	
roduction		8/30/1988		5 1/2	4.892	17.00	K-55	6,41	
ement	7.2								
tring: Surface, 310ftKB 8/1	8/1988								
ementing Company					Top Depth (ftKB) 15.0	Bottom Depth (ftKB) 310.0	Full Return?	Val Cement Ret (bbl)	
uid Description				# 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT. 100 CONT.	Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)	
tring: Production, 6,410ftKE	8/30/10	98	e (19) Jeaghnio		Lead	165	[G	15	
ementing Company	3 0/30/13	OO daggerahe ga				Boltom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
uid Description					2,405.0 Fluid Type	6,411.0 Amount (sacks)	Class	Estimated Top (ftKB)	
					Lead		Howco Silica Lite	2,405	
luid Description				Fluid Type Tail	Amount (sacks) 500	Class	Estimated Top (ftKB) 4,000		
ubing Strings	Direct Co	ACTUAL PROPERTY	orphile i w	4.5月世纪1954年1954年				4,000	
ubing Description <b>Lubing</b>			THE PERSON NAMED OF THE PE		Run Date 4/29/3	2009	Set Depth (ftK8)	4,351	
Item Des	Jts	QD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
ubing	138	2 7/8	2.441	6.50	J-55	4,328.10	15.0	4.343	
Seating Nipple Packer		2 7/8 5 1/2		, in the second		1.10 7.40	4,343.1	4,344	
Rod Strings	Entraction (A)	5 1/2	2/15/13/16/2			7.40	4,344.2	4,351.	
od Description	E NO AGRESA MATOR A				Run Date		Set Depth (ftKB)		
Item Des	Jts	QD (i	2)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
		3-0	V 5.36. 10001000				(0) (0)	Don (laxb)	
Perforation Intervals									
Stage# Zone 11 GB4, Original Hole	es algerial (Fig.)	Top (ft)	4,430	Btm (ftKB) 4,434	Shot Dens (shots/ft)	Phasing (*)	Nom Hole Dia (in)	2/17/2003	
11 GB6, Original Hole	ar en en en en	8-24-03-53	4.469	4,475	4			2/18/2003	
11 GB6, Original Hole			4,480	4,492	4		and Appendix and A	2/18/2003	
11 PB10, Original Hole			4,674	4,684	4			2/18/2003	
5 D1, Original Hole	ACTION NAMED IN COLUMN	Name (Services of the	4.934	4,964	4		Street Street House Was switched	9/28/1988	
5 D2, Original Hole 10 C, Original Hole			4,992 5,117	5,004 5,124	4			9/28/1988	
10 C, Original Hole		MANUAL LINES OF	5,128	5,132	4	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF	NAME OF TAXABLE	2/18/2003	
10 B.5, Original Hole	ar Idea to a	ALECT A	5,178	5,181	4	and the set in the second	Probably the Ladren Lates I was place	2/18/2003	
4 A2, Original Hole		DOM:	5,378	5,394	4			9/24/1988	
9 A2, Original Hole			5,378	5,394	4			2/18/2003	
8 A3, Original Hole 7 CP.5, Original Hole	0.82.52		5,434	5,439	4	Loron a mar a march	Market Co.	2/17/2003	
7 CP.5, Original Hole 7 CP1, Original Hole	BELL CONTROL	Space Table Proper	5,827 5,857	5,832 5,860	4			2/17/2003	
7 CP1, Original Hole		Participated E	5,875	5,880	4			2/17/2003	
3 CP, Original Hole		S100 75 55	5,896	5,900	4		DANGE MATTERS	9/22/1988	
3 CP, Original Hole		71784 6 410	5,902	5,914	4		20 HOURS THE 1844 21	9/22/1988	
6 D1, Original Hole		Fugh	6,000	6,010	<b>超過程 14 1 4</b>	CONTRACT		2/17/2003	
2 CP, Original Hole	ALP TRESERVE STAY	COMMENTATION COLUMNS	6,144	6,154	4	No. of Contrast of Contrast	N. P. and J. William and D. Rabarina	9/20/1988	
1 CP, Original Hole	CHIEF STATE	254 . 3-16	6,304	6,309	4			9/15/1988	
timulations & Treatments		Frac Gradier	nt (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Siurry Vol (bb!)	Vol Recov (bbl)	
	(psi)							1	
	2,000			de la companie de la	a broad a Company	A to H metalogy as a second to the second	the state of the s		
	2,000 2,000		Percent.					7.7.19673633	
Stage# ISIP	2,000		or spring		War Marian Barrer and American		A COLUMN		



### Newfield Wellbore Diagram Data Federal 24-33B-8-16

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Val Recov (bbl)
5	1,800						
	1,933	0.76	18.5	7,716	2011		
	2,650	0.89	18.5	5,682			
			19.9	6,567			
	1,878	0.78	18.5	4,988			
10		Market and the second	19,4	8,500		Mad the second	
1	2,150	0.91	25.2	2,413	The second secon	A SELFER CONTROL FRANCISCO	COLUMN THE VALUE OF TAYING A PROPERTY OF
Proppant	三大學 经分别 经公司			The house of the second	TOTAL BENEFIT		
Stage#	Total Prop Vol Pumped (ib)			Total Add	Amount		
		Proppant Bulk sand 6	60000 lbs				
		Proppant Bulk sand 5	50000 lbs		<b>经</b> 公司各区区区基本	Maria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de	
- ALLES AND AND AND AND AND AND AND AND AND AND	CANAL CONTRACTOR OF STATE OF THE PROPERTY OF T	Proppant Bulk sand 6	66500 lbs				
		and the second s			and the second of the second o	LANCE AND A STREET OF THE PROPERTY AND A STREET OF THE PARTY OF THE PA	
		Proppant Bulk sand 3	88500 lbs				
, ,		Proppant Bulk sand 3 Proppant Bulk sand 3	ACCESSOR AND SECTION OF SECURITY				
; ;		TO A TOTAL PROPERTY OF THE PROPERTY OF THE PARTY OF THE P	192000 lbs				
		Proppant Bulk sand	92000 lbs 22894 lbs				
		Proppant Bulk sand 2 Proppant Bulk sand 2	92000 lbs 22894 lbs 50132 lbs				
		Proppant Bulk sand of Proppant Bulk sand of Proppant Bulk sand of	92000 lbs 22894 lbs 50132 lbs 5942 lbs				
4 5 6 7 7 3 9		Proppant Bulk sand 2 Proppant Bulk sand 2 Proppant Bulk sand 5 Proppant Bulk sand 6	92000 lbs 22894 lbs 50132 lbs 5942 lbs 4438 lbs				